

LINE NO	LIST OF DRAWINGS	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER
1	CASE, TOOL	D34005			A 69976	B157483	C67840	D34004
2	SWITCH AND SOCKET	A170205	A9597	A169922	A169985	B157484	C67843	
3	CONNECTION	A170206	A9598	A169923	A170061			
4	HASP	A169782	A17950	A169924	A23876			
5	HINGE	A169753	A18044	A169925	A170172			
6	REINFORCE	A169911	A18746	A169926	A170173			
7	CONNECTION	A169977	A18251	A169927	A170179			
8	DOOR	B157481	A169910	A169928	A170183			
9	BOTTOM	B157482	A43876	A169929				
10	TRAY	B157498	A169912	A169930				
11			A169913	A169931				
12	LID	C68367	A169914	A169932				
13	SEPARATOR	C68368	A169915	A169933				
14	LIST OF AUTHORIZED ASSEMBLIES	D167548	A169916	A169934				
15	BODY AND SEPARATOR	D34261	A169917	A169935				
16	LIST OF PARTS	B156823	A169918	A169936				
17	LIST OF PARTS	B156823A	A169919	A169937				
18	LIST OF PARTS	B156823B	A169920	A169938				

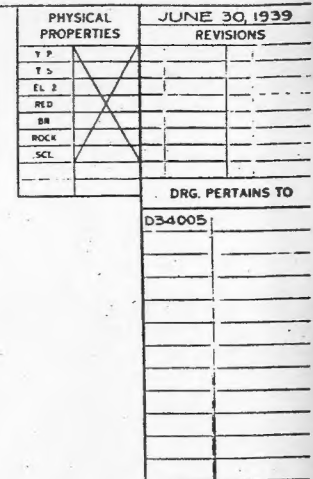
CASE, TOOL C34005

PERTAINS TO ALTERNATE DESIGN

* FINDING DIAGRAM

JUNE 30, 1939		CLASS	ISSUED	REVISED
REVISIONS				
1	4-12-40	6	1-1-44	
2	5-15-40			
3	1-8-42			
4	9-15-42			
5	1-1-43			
DRG. PERTAINS TO				
D34025				
SUBMITTED				
EXAMINED:				
APPROVED BY ENGINEER USE THE SPACE OF ONE				
D34005				
ORDNANCE DEPT., U.S.				
MADE AT ROCK ISLAND IES				

MICROFILM - A44 - 731



* FINDING DIAGRAM

SYMBOL

CHARTERED	104.30	176 7000732
<i>mgk</i>	<i>176</i>	
<i>200</i>	<i>176</i>	<i>104</i>
SUBMITTED-		

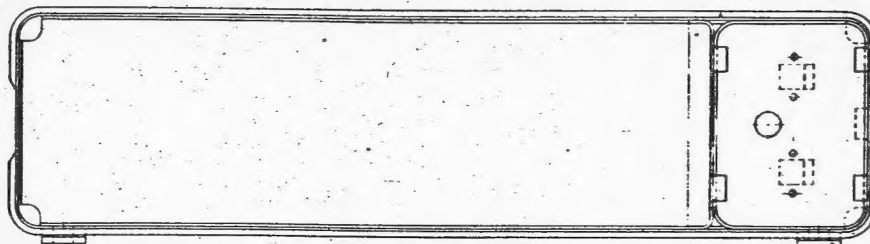
APPROVED BY ORDER OF THE CHIEF
OF ORDNANCE
[Signature]
ORDNANCE DEPT. U. S. A.

MADE AT ROCK ISLAND ARSE

MICROFILM - A 44 -

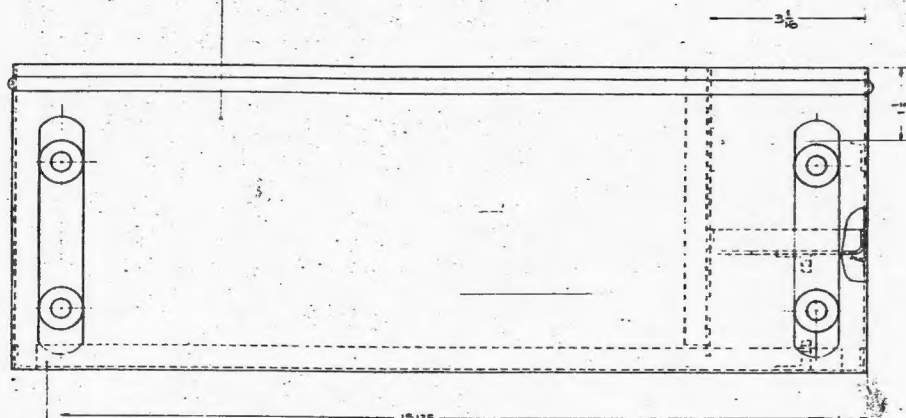
770

SEPARATOR-C68368 *
BODY-D34004

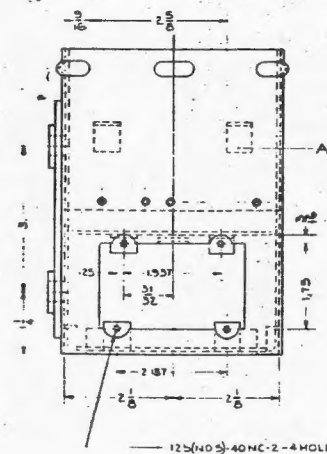


— REINFORCE - A169911 *

STAMP PIECE MARK



BOTTOM-B157482 *



---ANGLE-A169923

BODY AND SEPARATOR
(SPOT WELDED) (D34261

RANGE OF DIVERGING
 NOT OVERLINE SPECIFIED
 DECIMAL :
 FRACTIONAL :
 ANGULAR :

* FINDING DIAGRAM

JUNE 30, 1959		CLASS	Inventory	Release
REVISIONS				
1-1A-12-40		SYMBOL		
DRG. PERTAINS TO G34005		DESCRIPTION	NUMBER	DATE
		H M A		
		AWR	ST	SC
		SUBMITTED:		
		EXAMINED:		
		APPROVED BY ORDER OF THE COMBAT AREA		
D34261		ORDNANCE DEPT., U.S.		
		MADE AT ROCK ISLAND		

D3426

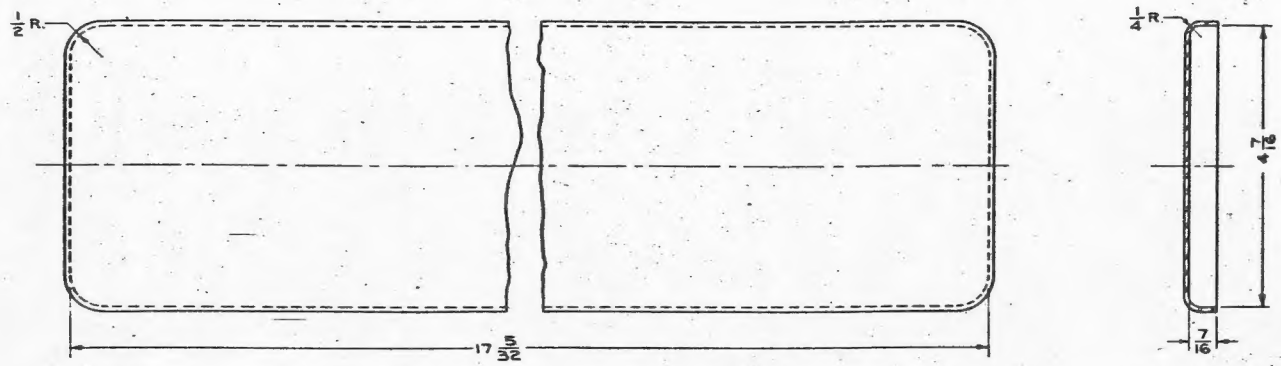
ORDNANCE DEPT., U. S.
MADE AT ROCK ISLAND AR

MICROFILM - A44 - 723

PHYSICAL PROPERTIES		JUNE 30, 1939
		REVISIONS
Y P		1 4-12-40
Y S		
EL 2		
PDF		
SW		
RECA		
SCL		

DRG. PERTAINS TO

C 68367	
C 91604	



PIECE C67840
PLAIN CARBON STEEL
 1/16 THICK, HOT ROLLED,
 PICKLED, DEEP DRAWING

NOTE:-
 MAKE TO FIT BODY AND SEPARATOR, D34261.
 REMOVE ALL SHARP EDGES.

NUMERALS ON DIMENSIONS
 NOT OTHERWISE SPECIFIED
 DECIMALS 2
 FRACTIONS 2
 ANGLES 2

SYMBOL	
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SUBMITTED	
APPROVED BY ORDER OF THE CHIEF OF ORDNANCE	
ORDNANCE DEPT. U. S.	

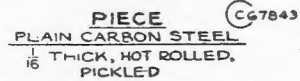
SCALE + C 67840

MADE AT ROCK ISLAND AI

MICROFILM - A 44 - 772

DRG. PERTAINS TO

B1574821



ORDNANCE DEPT. U. S.

MADE AT ROCK ISLAND ARSEN

SCALE $\frac{1}{1}$ C67843

MICROFILM - A 44 -

729

~~HEAT TREATMENT & FINAL FINISH~~

39.78
± 0.1

94
± 0

125
100

2 TUBE NO. OR NAME OF MANUFACTURER
REV. 1PS
GUN, 37mm M3, M6 OR M5A
MARKING ON TOP OF TUBE
OPT. ONAL TO APPLY LONGITUDINALLY OR
CIRCUMFERENTIALLY BY ROLLING OR
STAMPING

NOTE: UNLESS OTHERWISE SPECIFIED
CORNERS 03R-01 FILLETS 02R-01
FOR CHAMFER DETAILS SEE DRAWING 88082
FOR TUBE FORMING SEE DRAWING D36221

3.075
-005

4.749-.003 MAJOR DIAM.

4.749-.003 MAJOR DIAM.

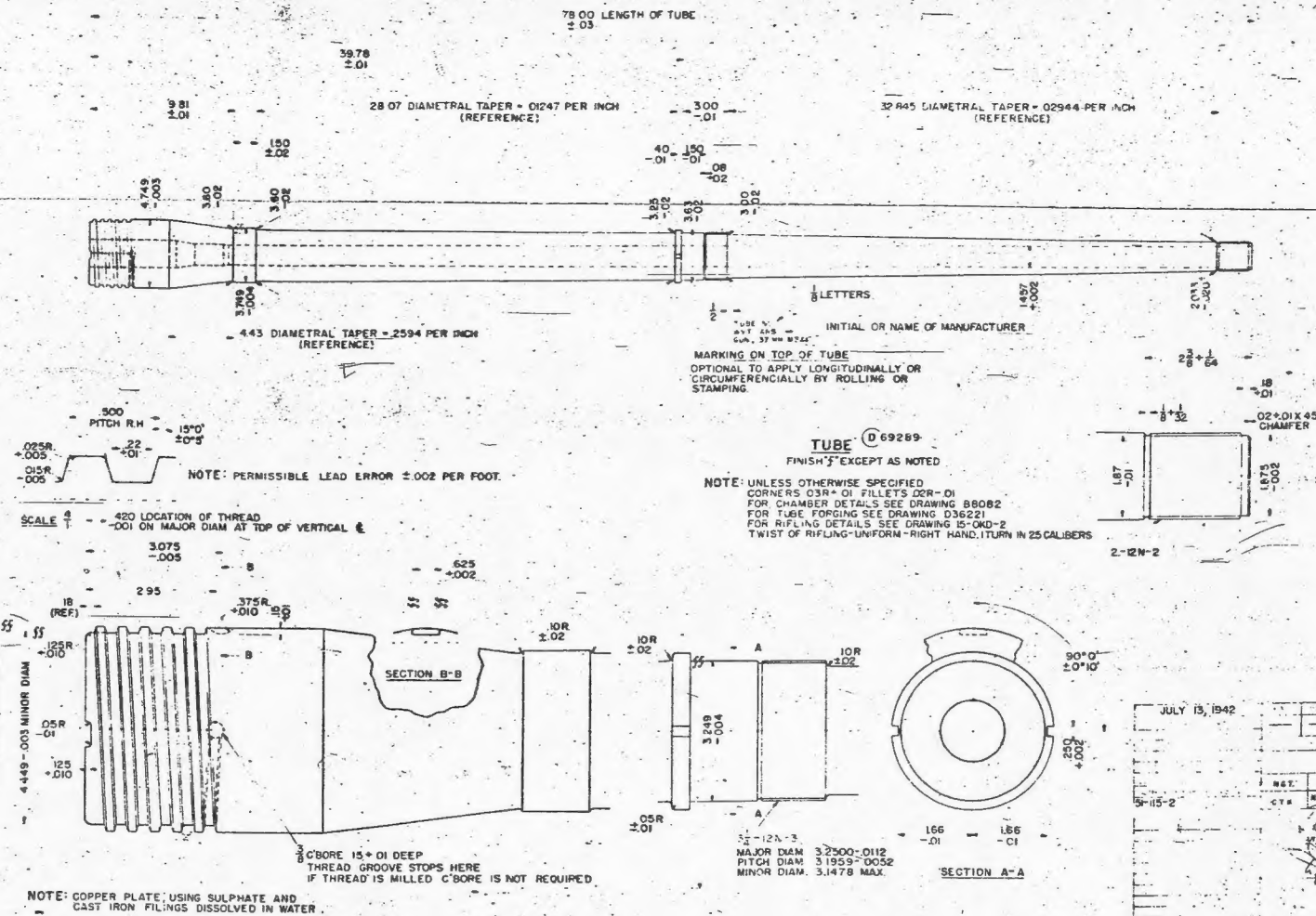
10 R.

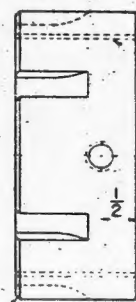
10 F

$$90^{\circ} 0' \pm 0^{\circ} 10'$$

SCALE: $\frac{1}{3}, \frac{1}{1}, \frac{4}{1}$

WITH 51-100-2 SUPERSEDES 51-100-2			
MAY 22, 1941		CLASS DIVISION GRADE NO.	
REVISIONS		SYMBOL	
7-12-43			
DRG PERTAINS TO			
51-100-2		REVISED BY NLS	
51-06-3		CYR	
51-04-6		ALBANY	
		<i>[Signature]</i>	
		ISSUED	
		APPROVED BY ORDNANCE DEPT	
		ORDNANCE	
D36398		ORDNANCE DEPT U.S.A.	





3.2500-MAJOR DIAM.
3.1959+.0052-PITCH DIAM.
3.1598+.0090-MINOR DIAM.

THIS FACE MUST BE HELD
PERPENDICULAR TO THE THREADS,
WITHIN .0015

 $\frac{1}{16} \times 45^\circ$

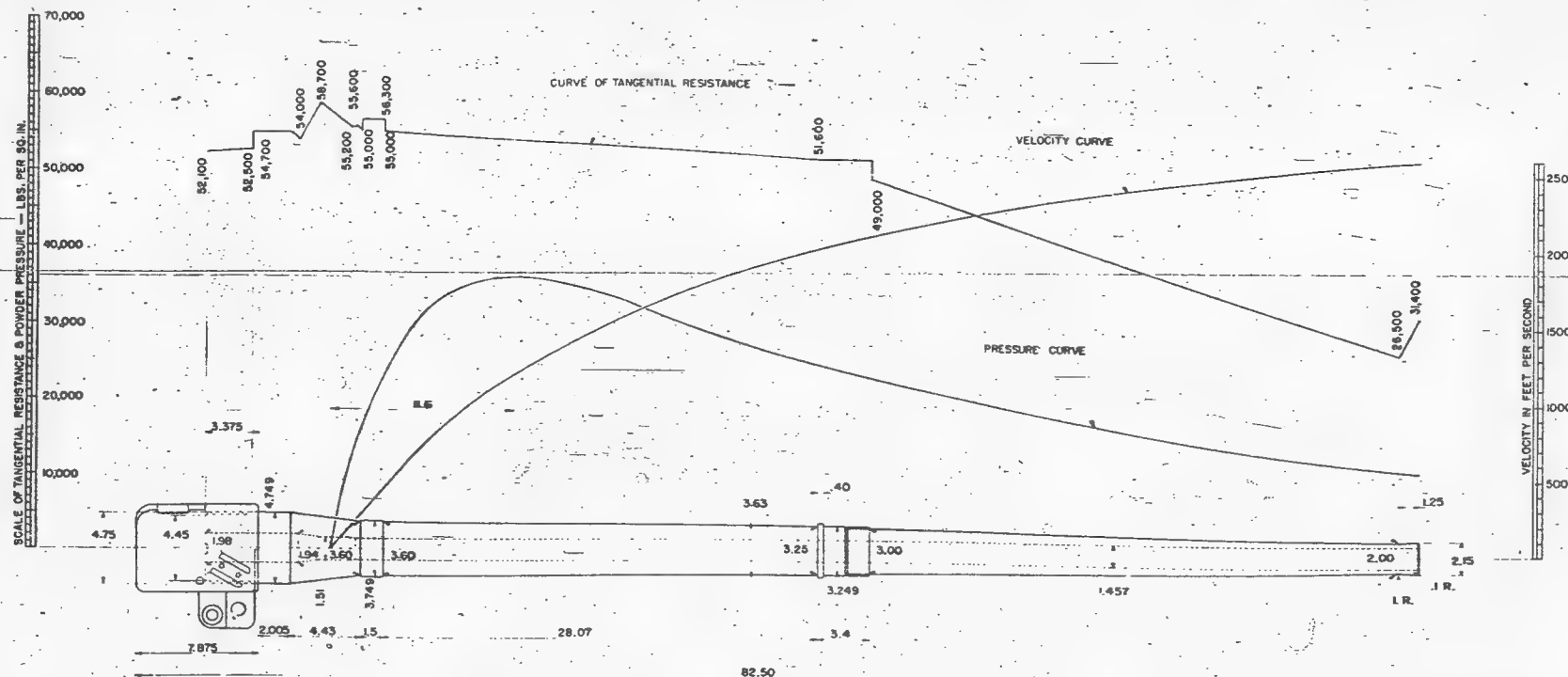
NUT (B 8448)
ALLOY STEEL
FINISH

NOTE: EXCEPT AS NOTED, CORNERS .03 R., FILLETS .02 R.

SCALE: $\frac{1}{4}$

B8448

[illegible]



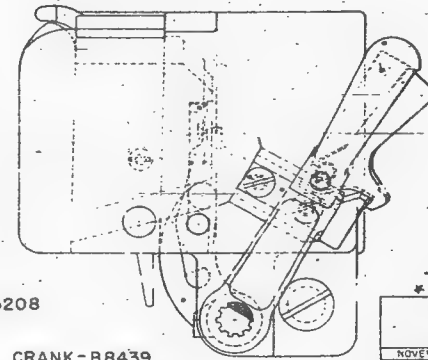
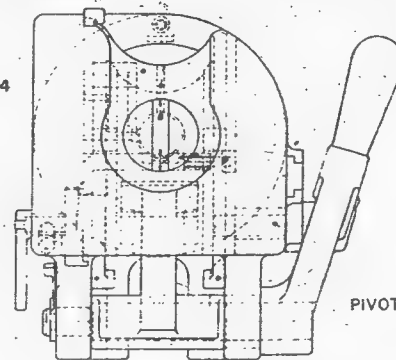
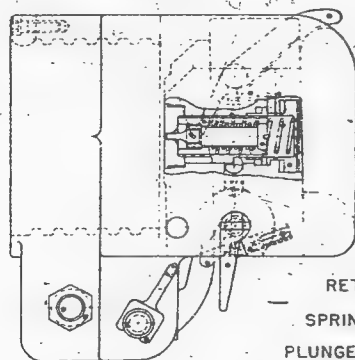
PHYSICAL PROPERTIES	
TP	
TS	
TL	
RED	
HT	
BR	
SCL	
CC	

GUN, 37MM. M3			
BALLISTIC DRAWING			
JANUARY 20 1939	CLASS	DIVISION	DRAWING FILE
REVISIONS	51	100	3
SYMBOL			
DESIGNED BY	TRACER	LOCATED BY	
W.S.S.	J.F.		
CHECKER	CHECKER	CHIEF DESIGNER	
SUBMITTED BY			
COL. ORD. DEPT. USA			
EXAMINED BY			
COL. ORD. DEPT. USA			
APPROVED BY			
COL. ORD. DEPT. USA			
ORDNANCE OFFICE, WAR DEPT.			

HEAT TREATMENT & FINAL FINISH

DESIGN	
Y.P.	
Y.S.	
EL-2	
RED	
PM	
+	
LCI	

STOP - A25203
 SPRING - A25202
 GUIDE - A25200
 LEVER - B8443
 PLUNGER - A25205
 SPRING - A25206
 PIN - BFDX4BP
 SPRING - A7225234
 PIN - A25201
 RETAINER - B8444
 SPRING - FAAXIF
 PLUNGER - A25209
 TRIGGER - B8446
 TRIPPER - B8447
 NUT - BBSX4AG
 KEY - A25215
 DETENT - A25213
 BREECHBLOCK - D36225
 PIN - BFDXIES
 BUSHING - A25199
 SEAR - B8445
 SPRING - FAAXIF
 PIN - BFDXIBF
 PIVOT - A25208
 EXTRACTOR R.H. - B8441B
 EXTRACTOR L.H. - B8441A
 LATCH - B8437
 HANDLE, OPERATING - C70401*
 SPRING - A25207
 PIN - BFDX2CC
 STAKE AT ASSEMBLY
 CATCH - B8438
 SCREW - BCKX2EH
 STAKE AT ASSEMBLY
 CRANK - B8439

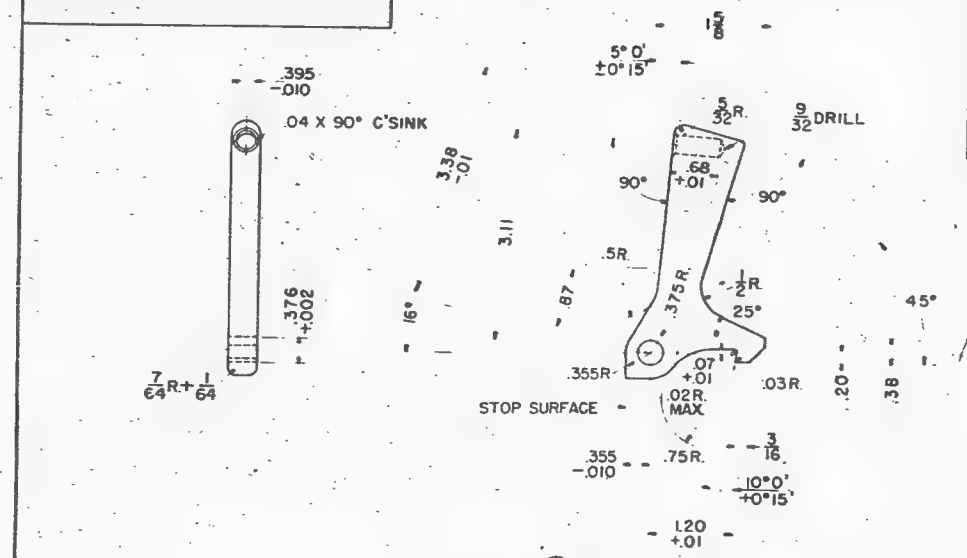


* FINDING DIAGRAM

BREECH MECHANISM ASSEMBLY			
NOVEMBER 9, 1939	CLASS	INVT-CHN-DRW-MC-FLE	FILE
REVISIONS	REV	BY	DATE
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
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89	89	89	89
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91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

0 1 2 3 4 5 6 7 8 9 10 INCHES

HEAT TREATMENT & FINAL FINISH
CARBURIZE LATCH SURFACE .01 DEEP



PHYSICAL PROPERTIES		DECEMBER 22, 1938	
		REVISIONS	
YP		1	10-2-40
TS		2	3-7-41
EL 2			
RED			
BR			
ROCK	A78 A82		

DRG. PERTAINS TO

51-100-5
51-104-5
D36565
D69288

DESIGNED BY
E.J.H. M.L.S.

CHECKED BY
E.J.H. M.L.S.

SUBMITTED

W. L. Langer

MAJOR ORD DEPT U S A
APPROVED BY ORDER OF THE
CHIEF OF ORDNANCE

John D. Yarnall

MAJ. ORD DEPT U S A
ORDNANCE DEPT U S A

LATCH (B8437-2)
STEEL WD 3415
FINISH ϕ

NOTE: UNLESS OTHERWISE SPECIFIED
CORNERS .06R. +.01

SUPERSEDES OLD TRACING B8437
UNDER REVISION DATE OF MARCH 7, 1941

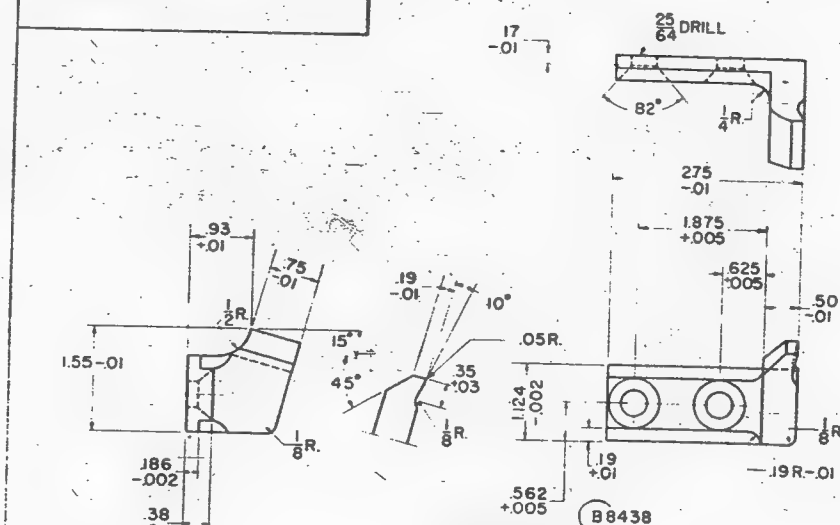
SCALE 1" = 1"

B 8437

MICROFILM - A 44 -

26

HEAT TREATMENT AND FINAL FINISH
HEAT TREAT



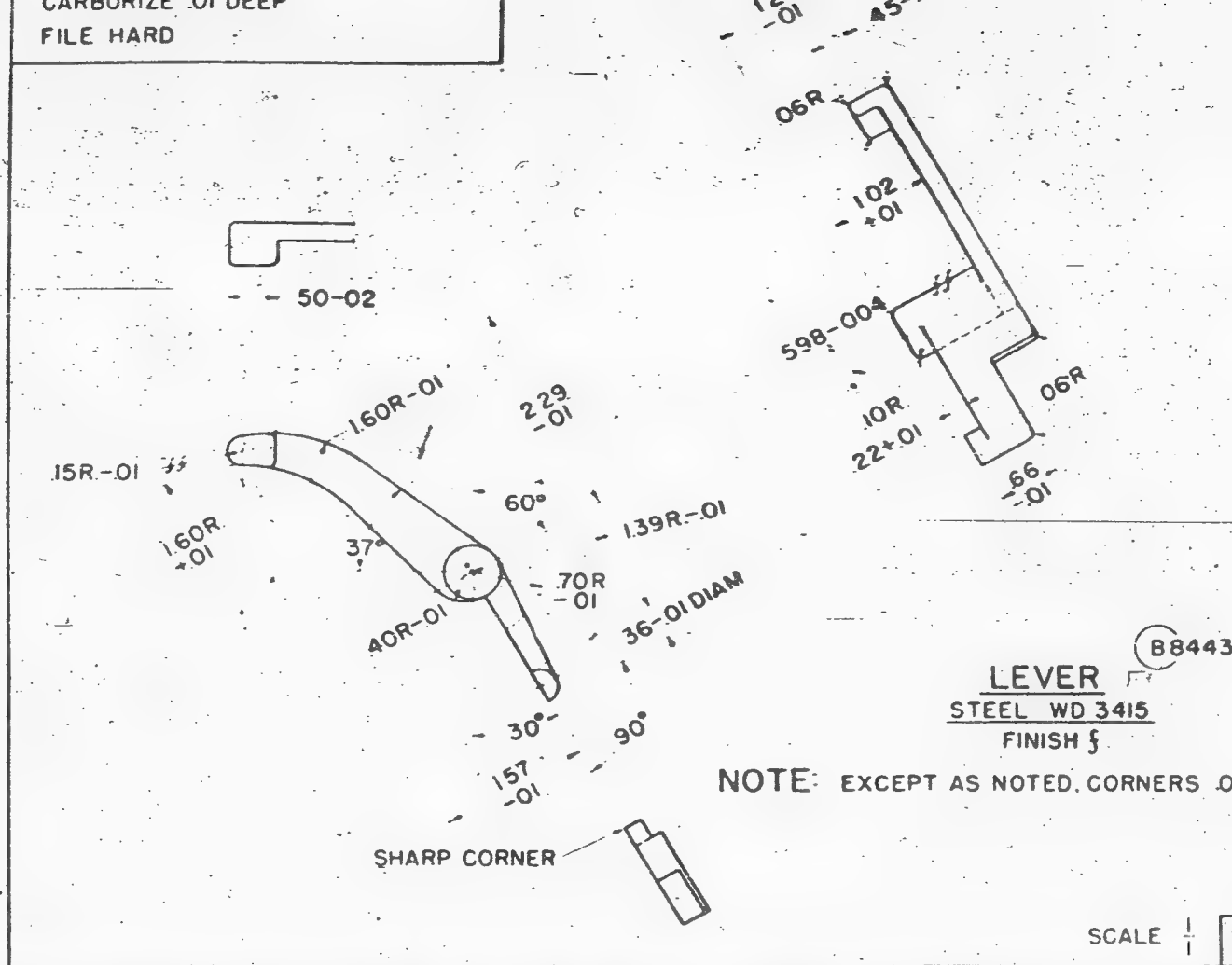
CATCH
STEEL WD 3458 4140
FINISH

NOTE: EXCEPT AS NOTED, CORNERS .03R, FILLETS .02R.

SCALE: 1/16" = 1" B8438

PHYSICAL PROPERTIES		REVISIONS	
TEMP		1	1-15-42
T.S.			
EL 2			
RED			
MT T			
RR			
ROCK	C 43		
	C 48		
LAW PERTAINING TO			
51-100-5			
SYMBOL			
W.M.B. I.R. J.S.			
CR. REV. -223			
P. H. Jones			
J. H. Jones			

CARBURIZE .01 DEEP
FILE HARD



NOTE: EXCEPT AS NOTED, CORNERS .03R, FILLETS .02R.

SCALE 1/16 B8443

Y P	
Y S	
EL	
REL	
HTT	
HW	
SCL	
C/S	

DRG PE
51-100-
51-104-

W.S.S. I

CH CH

PM

Q/V

MICROFILM - A 44 -



HEAT TREATMENT & FINAL FINISH

PHYSICAL PROPERTIES	DECEMBER 22, 1938
Y.P.	1 19-19-41
T.S.	2 11-22-41
EL 2	3 6-16-43
RED	
BR	
ROCK	
SCL	

DRG. PERTAINS TO

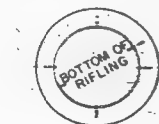
SI-100

SI-104

SI-106

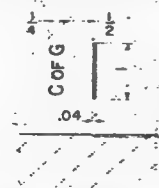
OR NAME OF MANUFACTURER

NOTE: - MARKING ON LOWER HALF FOR M6 GUNS



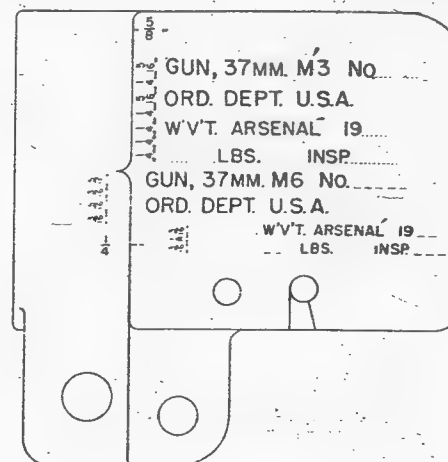
MUZZLE MARKING

VERTICAL AND HORIZONTAL V-SHAPED LINES .04 WIDE .03 DEEP



CENTER OF GRAVITY MARKING - 2

OIDR MAX.
OOSR MIN.



BREECH MARKING

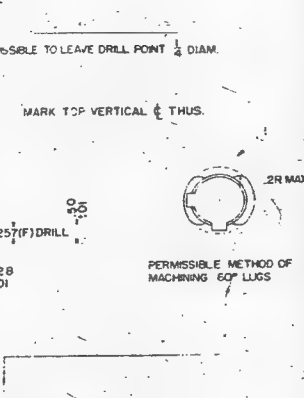
SYMBOL

PMF	IR	26
ER	ER	26

APPROVED BY
COL. J. D. BENT U.S.A.
APPROVED BY ORDER OF THE
SEC. OF DEFENSE
U.S.A.
ORDNANCE DEPT U.S.A.

SCALE 1/2 C70402

MICROFILM - A44 - 45



FEBRUARY 27, 1939
 TELEVISIONS
 11-22-39
 FISHMAN IRA SR - STEWART
 W.S.S. J.F. 87
 G.T.K. 6
 CPG PERTAINS TO
 EVAN REC
 5F-100-5
 5F-104-5
 D36225
 ORDNANCE OFFICE WAR DEPT.

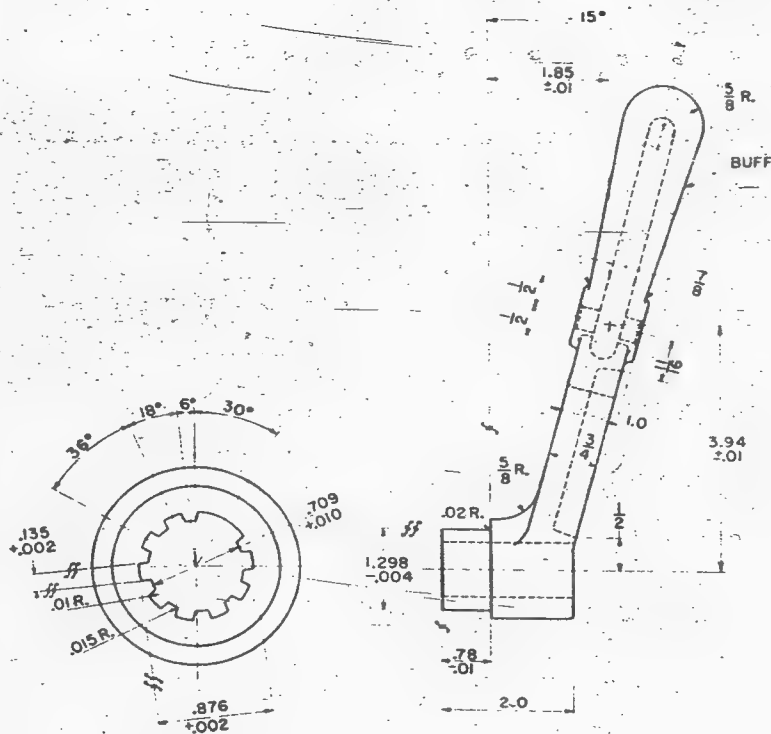
HEAT TREATMENT & FINAL FINISH
HEAT TREAT BEFORE MACHINING
BRINELL 235-265

PHYSICAL PROPERTIES		DECEMBER 22, 1938	
		REVISIONS	
Y P	1	10-2-40	
T S	2	10-28-40	
EL 2			
RED			
BR			
ROCK			
SCL			

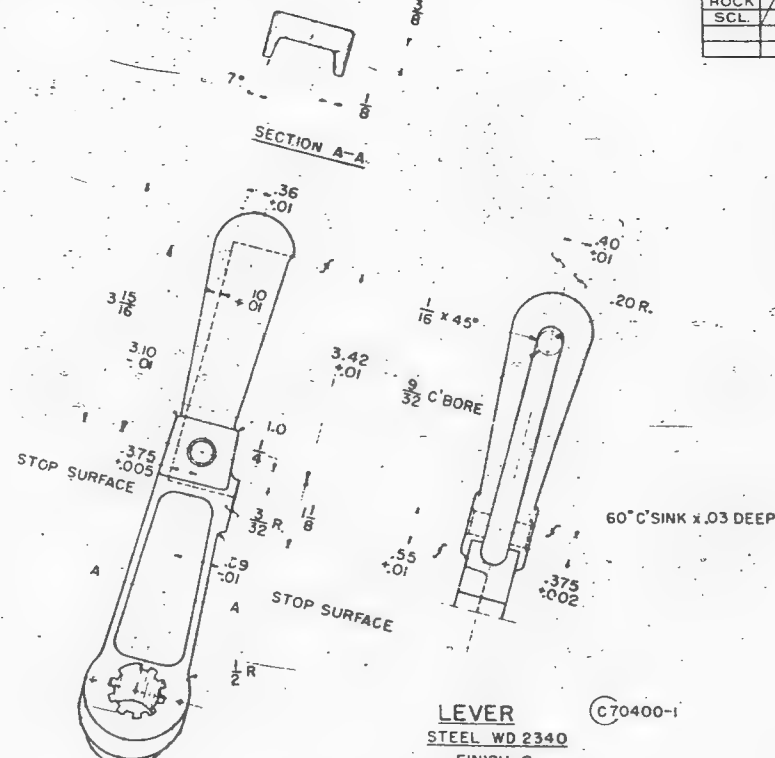
DRG PERTAINS TO

C70401

C70430



DETAIL OF SPLINES
SCALE: 2/1



LEVER
STEEL WD 2340
FINISH 2

C70400-1

NOTE: EXCEPT AS NOTED, CORNERS .06 R, FILLETS .05 R.
DO NOT STAMP PIECE MARK ON THE FINISHED PART.

SCALE: 1/2

C70400

SYMBOL		
WSS	JF	SS
DR	CR	DR
SUBMITTED		
P. H. Adams		
COL. ORD. DEPT. U.S.A.		
APPROVED BY ORDER OF THE		
CHIEF OF ENGINEERING		
J. W. Hinkle		
ORD. DEPT. U.S.A.		
ORDNANCE DEPT. U.S.A.		

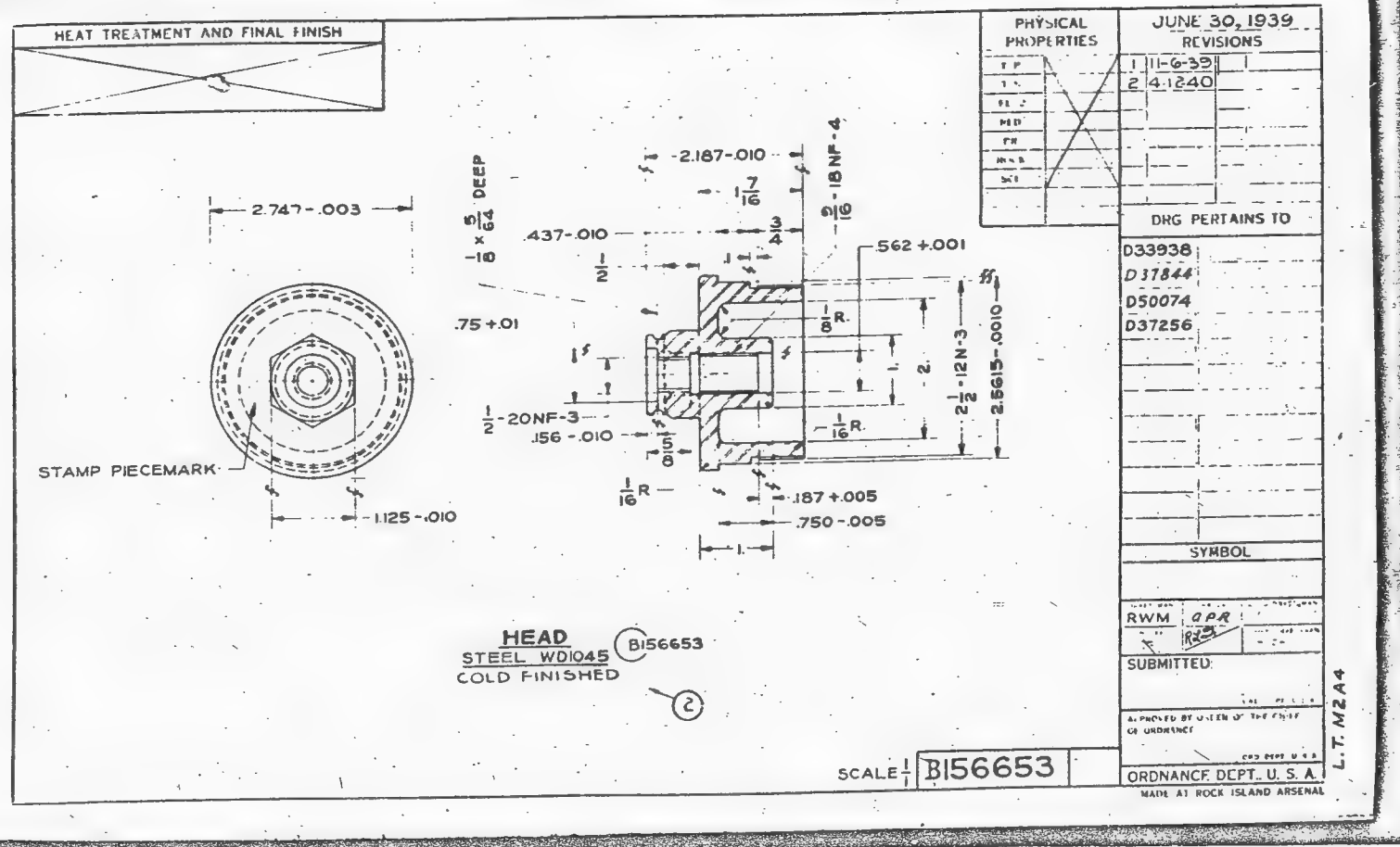
MICROFILM - A 44 -

50

HEAT TREATMENT & FINAL FINISH		PHYSICAL PROPERTIES				A164120 JUNE 30, 1939							
		T P	RED	SCL	REVISIONS								
		T S	DR		1	4-12-40							
		EL 2	ROCK		2	6-7-40							
					3	12-3-43							
<p>BOSS STEEL, WDX020 A164120-2</p> <p>COLD FINISHED</p> <p>SCALE $\frac{2}{1}$ A164120</p>						DRG. PERTAINS TO A164119							
						SYMBOL							
						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">REVIEWED <i>[Signature]</i></td> <td style="text-align: center;">TRACED</td> <td style="text-align: center;">LTS DRAFTSMAN</td> </tr> <tr> <td style="text-align: center;">CIRCLES <i>[Signature]</i></td> <td style="text-align: center;">CHIEF DRAFTSMAN</td> <td style="text-align: center;"><i>[Signature]</i></td> </tr> </table>		REVIEWED <i>[Signature]</i>	TRACED	LTS DRAFTSMAN	CIRCLES <i>[Signature]</i>	CHIEF DRAFTSMAN	<i>[Signature]</i>
						REVIEWED <i>[Signature]</i>	TRACED	LTS DRAFTSMAN					
CIRCLES <i>[Signature]</i>	CHIEF DRAFTSMAN	<i>[Signature]</i>											
<p>SUBMITTED:</p> <p>APPROVED & ORDERED BY THE CHIEF OF ORDNANCE <i>[Signature]</i></p> <p style="text-align: right;">ORD DEPT U. S. A.</p>													
<p>IN CHARGE OF DIMENSIONS NOT OTHERWISE SPECIFIED</p> <p>DECIMAL: FRACTIONAL: ANGLES:</p>						<p>ORDNANCE DEPT., U. S. A.</p> <p>MADE AT ROCK ISLAND ARSENAL</p>							

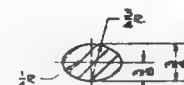
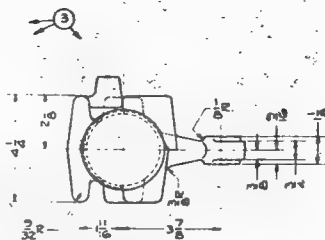
MICROFILM - A44 -

7

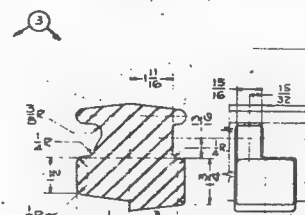
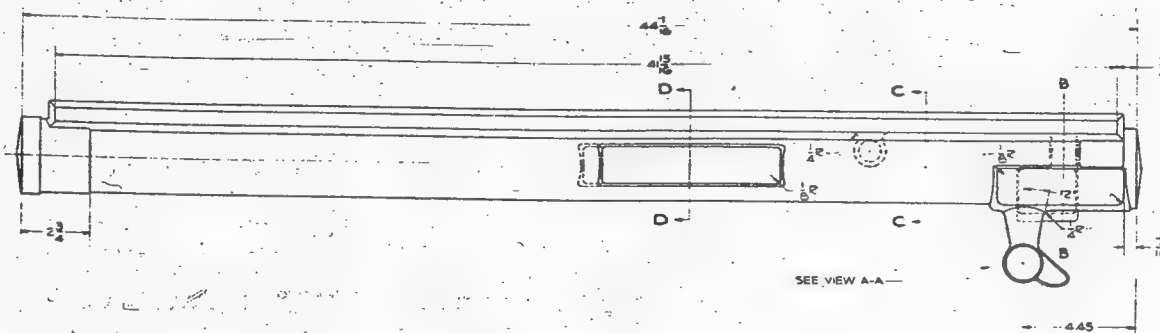


MICROFILM - A44 -

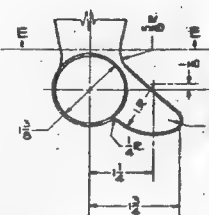
1002



SECTION E-E
SCALE 1"



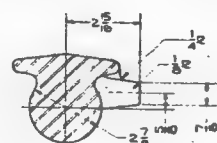
SECTION B-B



VIEW A-A
SCALE $\frac{1}{2}$



SECTION D-D




SECTION C-C

CYLINDER, RECOIL (D34145)
STEEL WD1045

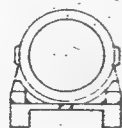
(2) → ANNEALED FOR MACHINING
NOTE ALL DRAFT SHOWN AT 7°

BALANCE ON DISBURSING
 BUT OTHER WISE SPENDING
 -NOMINAL :
 TOTAL :
 LEAD :

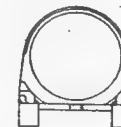
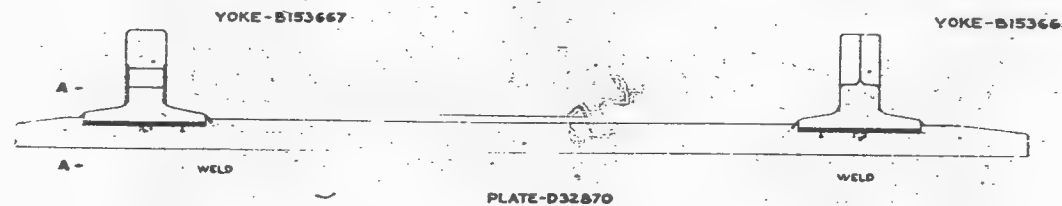
JUNE 30, 1959		CLASS	REFERENCE
REVISONS			
1 12-35		SYNOPSIS	
2 4-10-60			
3 12-27-61			
DRG. PERTAINS TO		W377	E.E.
D34158		EX-1	R-25
		SUBMITTED:	
		EXAMINED:	
			
D34145		ORGANIC D	

SCALE 1

MADE AT ROCK H



SECTION A-A



SLEIGH
WELDED CONSTRUCTION D32850

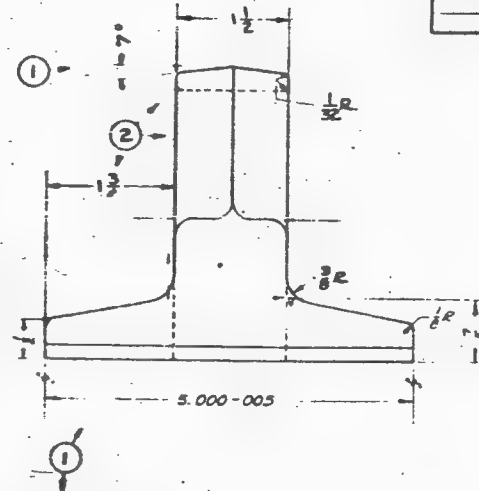
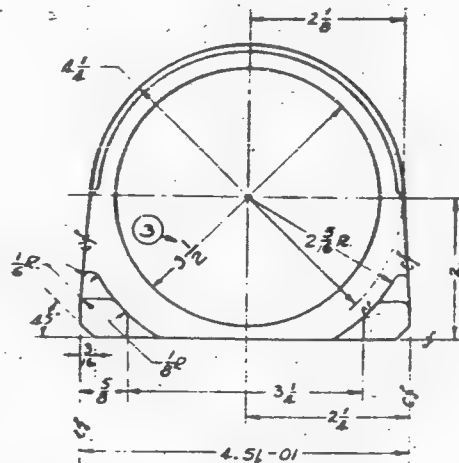
SUPERSEDES OLD TRACING D32850 UNDER REVISION DATE OF 1-1-43

0 2 4 6 8 10 12 14 16 18 20 22 INCHES

JUNE 30, 1939	
REVISIONS	
2. H-43	EXCHANGES ON DRAWING NOT UNDERGOING REVISIONS
	G.M. <i>cdl</i>
DRG. PERTAINS TO D32851	SUBMITTED
	EXAMINED
	APPROVED BY: <i>cdl</i>
D32850	ORDNANCE DEPT. US

MICROFILM - A44 - 111

HEAT TREATMENT AND FINAL FINISH	
X	



THE UNIVERSITY OF CHICAGO
CHICAGO, ILL.
U.S.A.

YOKE (B153666)
STEEL WD3115
AS FORGED

Seite 1

B153666

PHYSICAL PROPERTIES		JUNE 30, 1968	
		REVISONS	
TEMP		1	4-12-60
TEMP		2	3-14-41
CL I		3	4-28-42
RED			
IR			
ROCK			
SCL			

DOC CONTAINS 20

DRG. PERTAINS TO

032850
137530
030849

SYMBOL

	FRANCO	1 1/2 1/2 1/2 1/2
CHICAGO		CHICAGO
SUBMITTED:		

APPROVED BY ORDER OF THE CHIEF
OF DEFENSE

ORDNANCE DEPT. U. S. A.

HEAT TREATMENT AND FINAL FINISH

PHYSICAL
PROPERTIES

JUNE 30, 1939

REVISIONS

Y.P.	1	4-12-40
T.S.		
EL. 2		
RED		
DR		
ROCK		
DEL		

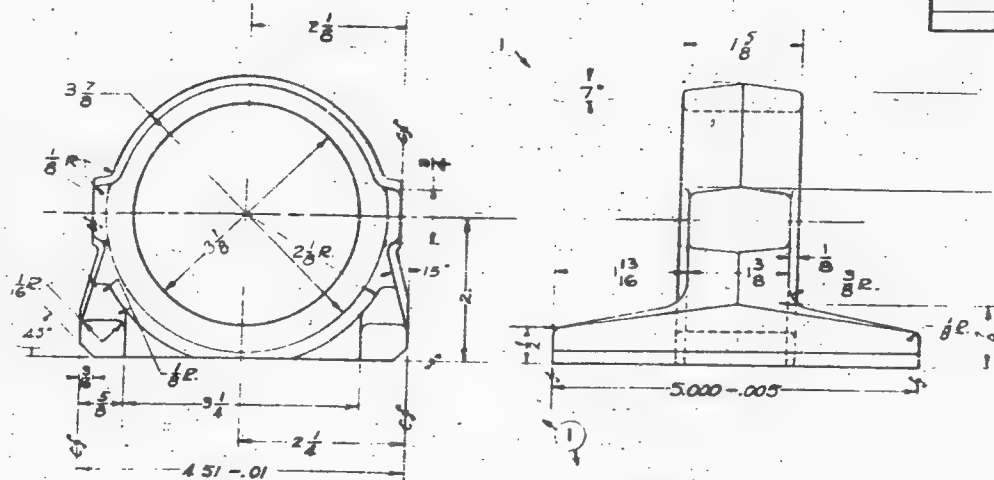
DRG. PERTAINS TO

D32850

SYMBOL

DESIGNED	HECK	TYPE DESIGNED
CHECKED		CHIEF DESIGNER
SUBMITTED		

APPROVED BY CHIEF OF THE BRANCH
BY ORDNANCE
I. V.
ORDNANCE DEPT. U. S. A.



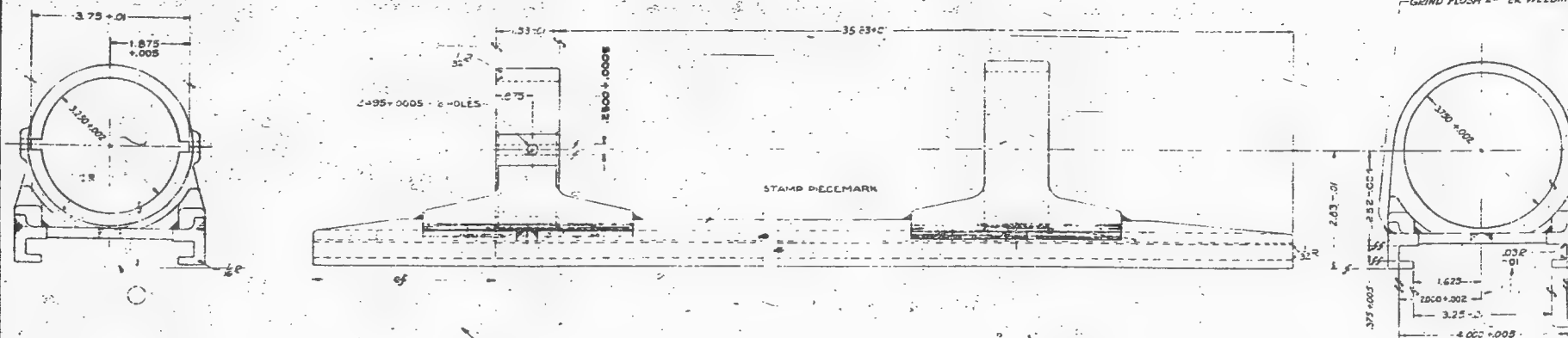
YOKE (B153667)
STEEL WD3115
AS FORGED

SCALE 1/2

B153667

MADE AT ROCK ISLAND ARSENAL

PHYSICAL PROPERTIES	
TEMP.	
REL. HUM.	
WIND	
SEA	
WAVE	
WAVE	
WAVE	
WAVE	



SLEIGH (D3285)
MACHINE

NOTE: BREAK ALL SHARP CORNERS

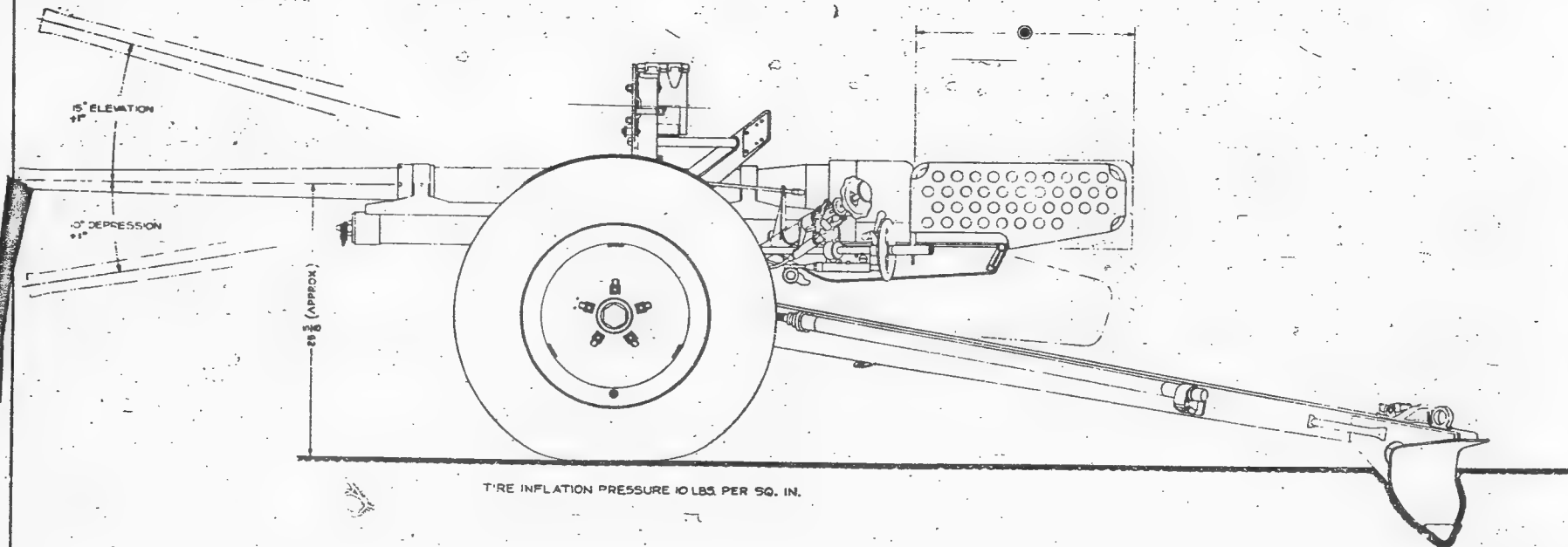
NOTE: SLEIGH, WELDED 1:2850

REVISIONS FOR 1:2850
REVISIONS FOR 1:2850
REVISIONS FOR 1:2850
REVISIONS FOR 1:2850
REVISIONS FOR 1:2850

JULY 30, 1939	CLASS	SYSTEM	CHARACTER	FILE
REVISIONS				
14 JUL 20 40				
2 AUG 25 43				
SYMBOL				
Dwg. PERTAINS TO				
D34684				
D37216				
SUBMITTED:				
EXAMINED:				
APPROVED BY CHIEF OF THE CHIEF OF ORDNANCE:				
ORDNANCE DEPT. U. S. A.				
MADE AT ROCK ISLAND ARSENAL				

SCALE: 1/4" = 1"

MICROFILM - A 44 - 114



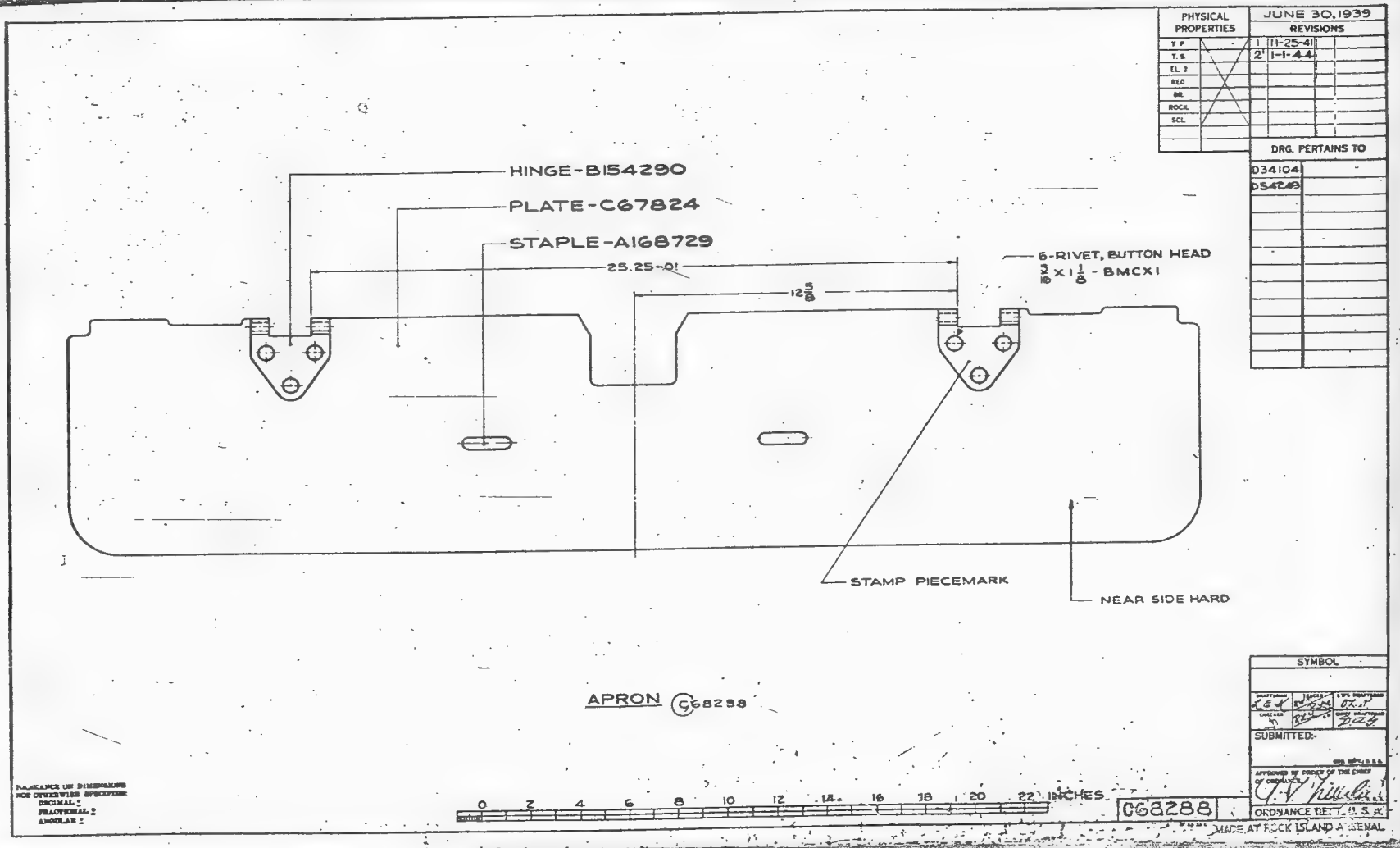
NOTE - MAX TRAVERSE 30° LEFT HAND - 30° RIGHT HAND

- 16-IN NORMAL RECOIL WITH GAS DEFLECTOR
- 20-IN NORMAL RECOIL WITHOUT GAS DEFLECTOR

0 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 INCHES

CARRIAGE, GUN, 37-MM. I			
SIDE VIEW, FIRING POSIT			
JUNE 30, 1935		CLASS	REVISION
REVISIONS		1	105 2
1 19-2-42		SYMBOL	
2 1 43			
DRG. PERTAINS TO		OPR	OPR
		OPR	OPR
		SUBMITTED	
		EXAMINED	
		APPROVED BY	
		DATE	
		ORDNANCE DEPT. U.S.	
		MADE AT ROCK ISLAND	

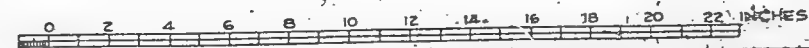
MICROFILM - A44 - 122



PHYSICAL PROPERTIES		JUNE 30, 1939	
		REVISIONS	
Y.P.		1	11-25-41
T.S.		2	1-1-44
EL. 2			
RED.			
BR.			
ROCL.			
SCL.			

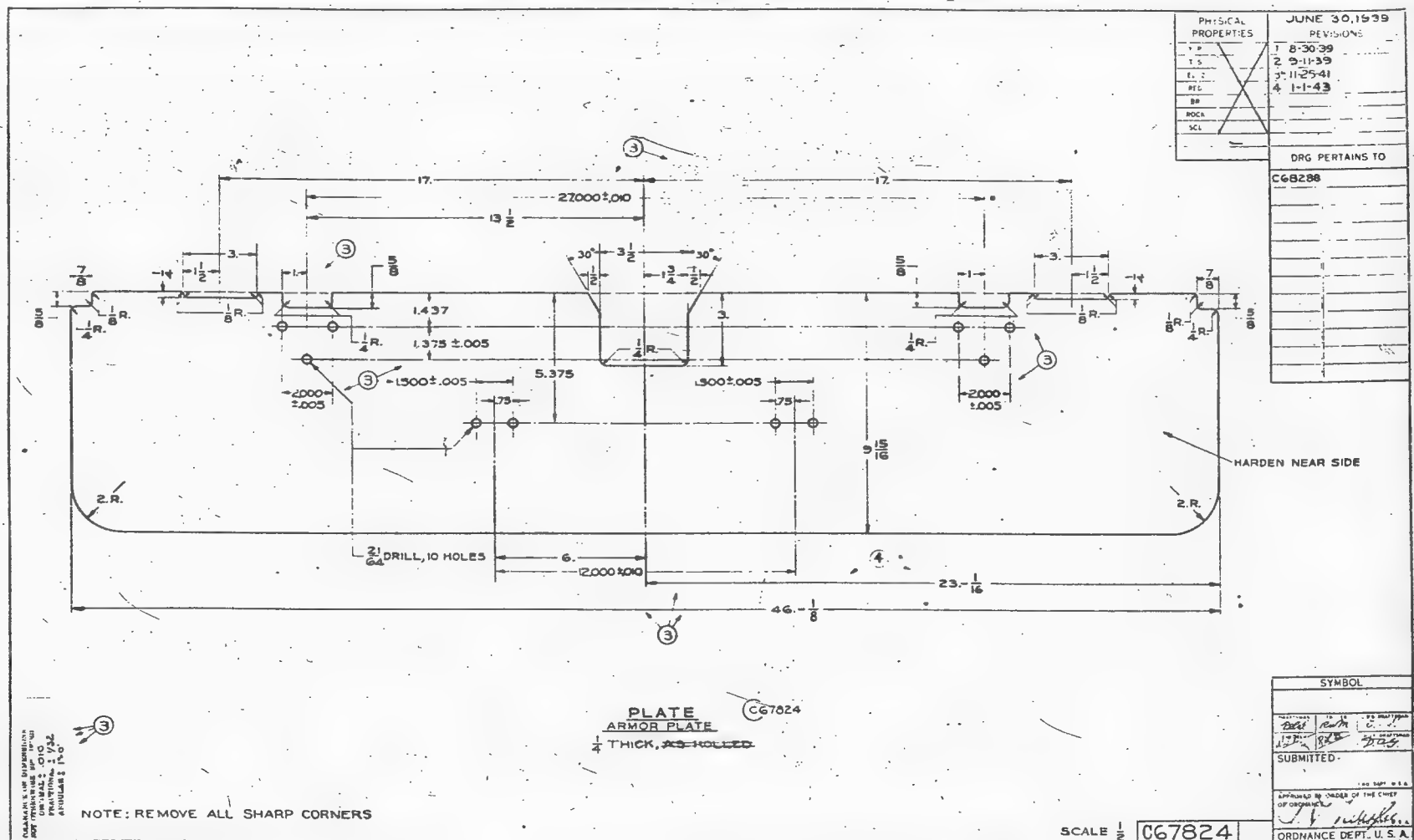
DRG. PERTAINS TO	
D34104	
D54249	

SYMBOL			
DESIGNED	BY	DATE	1/1/44
CHECKED	BY	DATE	3/22/44
SUBMITTED			
APPROVED BY CHIEF OF THE SHIP			
OF ORIGIN			
C. V. H. H. H.			
ORDNANCE DEPT. U. S. N.			
MADE AT ROCK ISLAND A. S. N.			



C68288

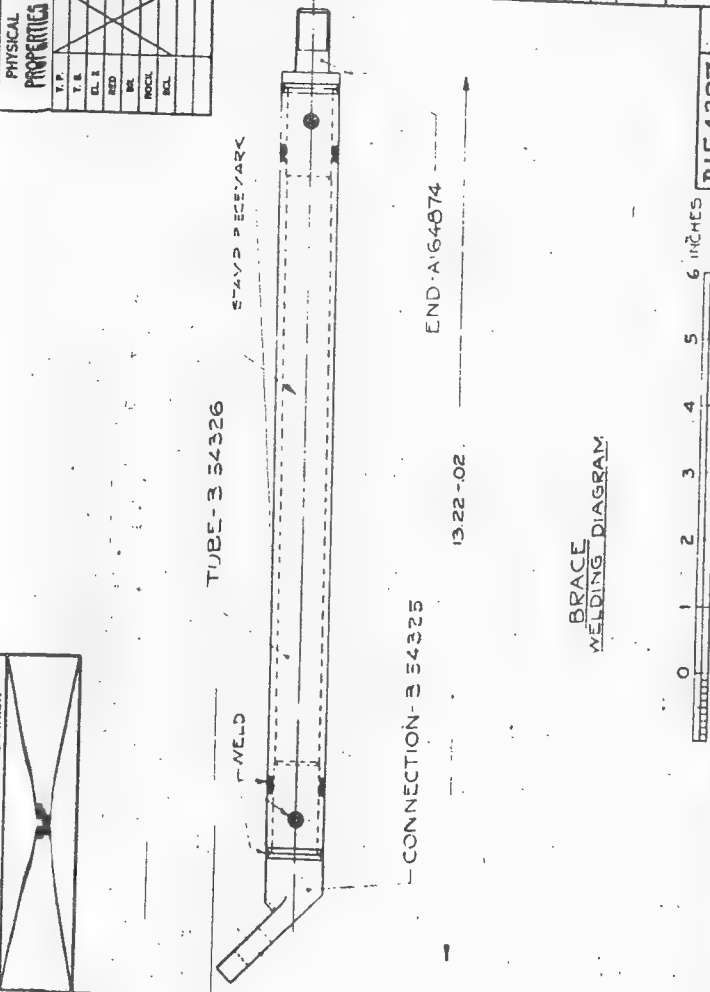
MICROFILM - A44 - 107



MICROFILM - A44 - 120



HEAT TREATMENT AND FINAL FINISH

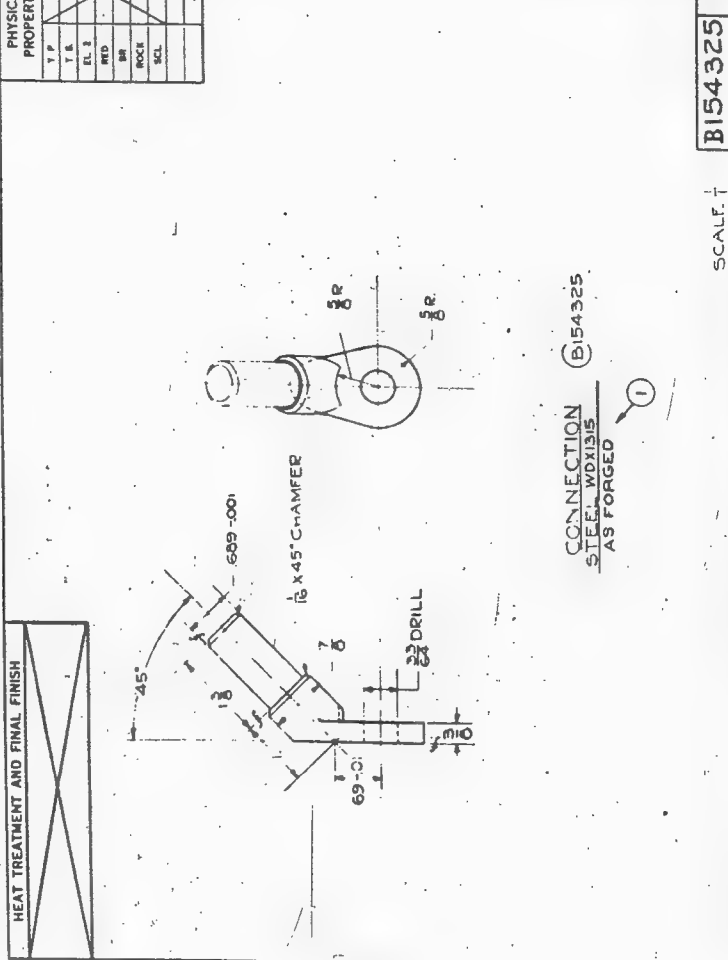


PHYSICAL PROPERTIES	
TP	17-30-41
TA	
EL 1	
EL 2	
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JUNE 30, 1933	REVISIONS
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MICROFILM - A 44 - 162

HEAT TREATMENT AND FINAL FINISH



PHYSICAL PROPERTIES	
TP	17-30-41
TA	
EL 1	
EL 2	
EL 3	
EL 4	
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EL 6	
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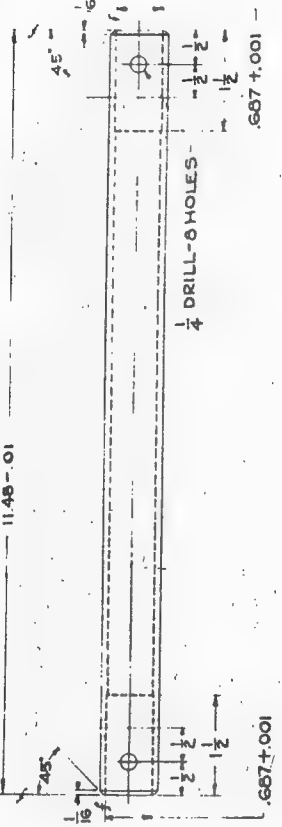
JUNE 30, 1933	REVISIONS
1	4-12-40
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MICROFILM - A 44 - 162

HEAT TREATMENT AND FINAL FINISH

PHYSICAL PROPERTIES
JUNE 30, 1933
REVISIONS

REV.	DATE	BY	CHKD.	REVISIONS
1	12-10-33			
2				
3				
4				
5				
6				
7				
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9				
10				



①
TUBE
COLD DRAWN SEAMLESS STEEL TUBING W.D.1020
OUTSIDE DIAM. .875, WALL THICKNESS .095

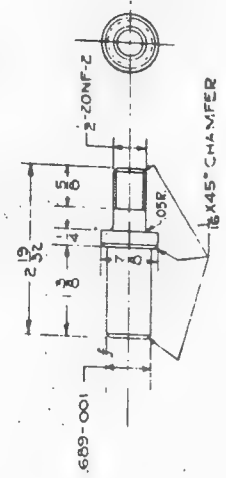
SCALE - B154326

DRG. PERTAINS TO
B154327
ORDNANCE DEPT. U. S.
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A 44 - 165

HEAT TREATMENT & FINAL FINISH
A164874
JUNE 30, 1939
REVISIONS

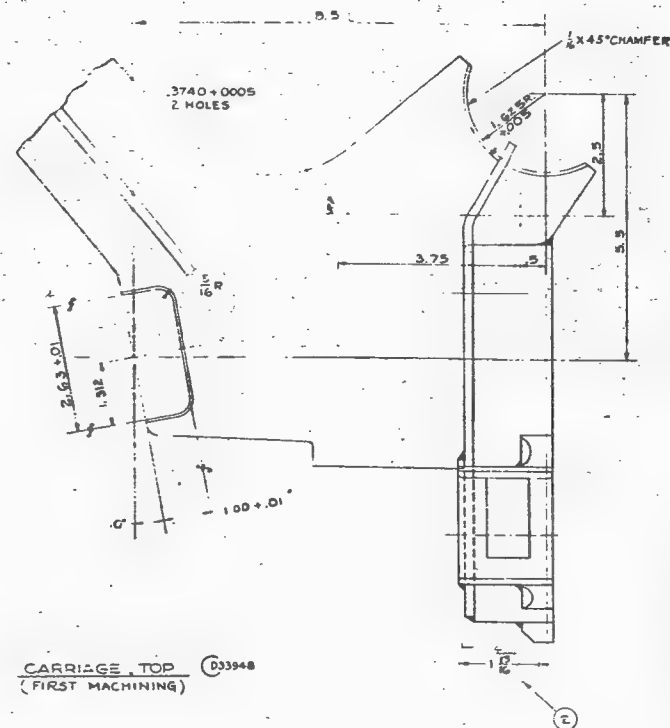
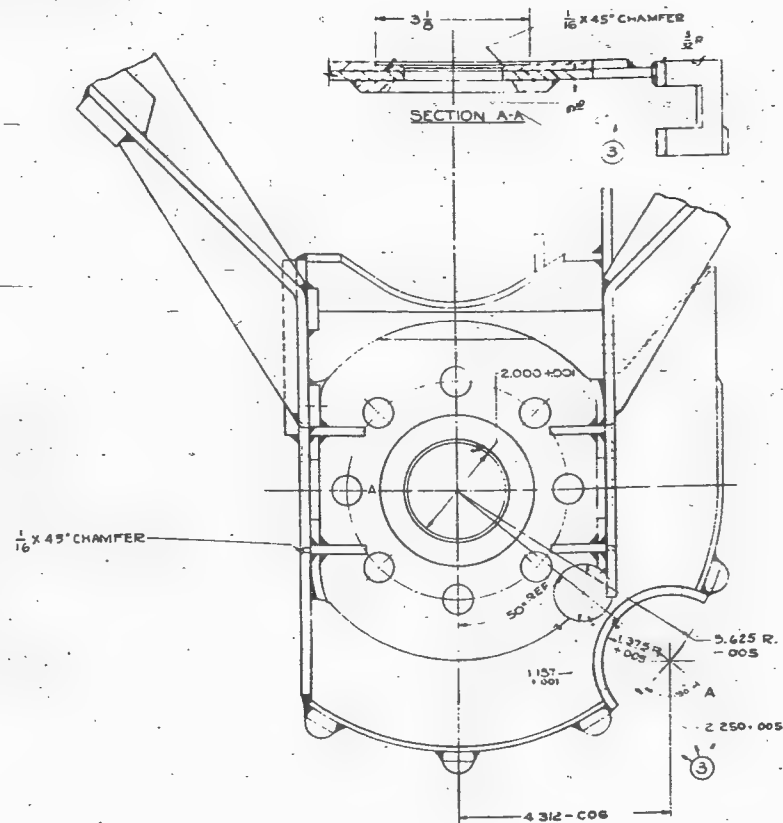
REV.	DATE	BY	CHKD.	REVISIONS
1	12-10-33			
2				
3				
4				
5				
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9				
10				



END
STEEL W.D.1020
COLD FINISHED
①

SCALE - A164874

DRG. PERTAINS TO
B154327
ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSENAL



CARRIAGE TOP
(FIRST MACHINING) D33948

ALL DIMENSIONS
UNLESS OTHERWISE SPECIFIED
ARE IN INCHES
FRACTIONS
DECIMALS

SCALE 1

JUNE 30 1953		CLASS	REVISION	APPROVED
REVISIONS				
1	12-17-53			
2	10-29-51			
3	1-23-48			
DRG. PERTAINS TO		D.L.M.	SCALE	1:100
D33549				20
SUBMITTED				
EXAMINED				
APPROVED BY CHIEF OF THE SHOP				
D33948		ORDNANCE DEPT. U.S.		
		MADE AT ROCK ISLAND AR		

MICROFILM - A44 - 217

33 DRILL 1/8 x 35° 21°
CHAMFER-2 HOLES

33 DRILL - 3 HOLES

STAMP PIECE MARK

NOTE:
BREAK ALL SHARP CORNERS

5/16-24NF-2, 1/2 DEEP-3 HOLES

21 GUARANTEED
2 CLEARANCE

CARRIAGE, TOP D33950
SECOND MACHINING
FOR OTHER VIEWS SEE D33951 & D33953
FOR FIRST MACHINING SEE D33948
FOR WELDING DIAGRAMS SEE D33945, D33946 & D33949

PERSEDES OLD TRACING D33950. UNDER REVISION DATE OF 1-1-43

SCALE 1

SECTION H-H

SECTION L-L

SECTION K-K

6 27NPT, 3/16 DRILL THRU

2490+0005-2 HOLES AT ASSEMBLY
3/8-24 NF-3-3 HOLES

DEPTH OF THIS HOLE, 5/16

1285 (NO. 30) DRILL AT ASSEMBLY

1.2500-.0005

17500-.0005

2 3/4 6750-.002

7.45-.01

JUNE 30, 1939

7 1-1-43
8 2-6-43
9 5-2-43

EXAMINED TO DIMENSIONS
BY THERM-A-SUR-RED
IN. NO. 008
FAC. NO. 156
APPROVED OF 15

D.L.M. *Bill*

1.00 PERTAINS TO
D33954
D40724

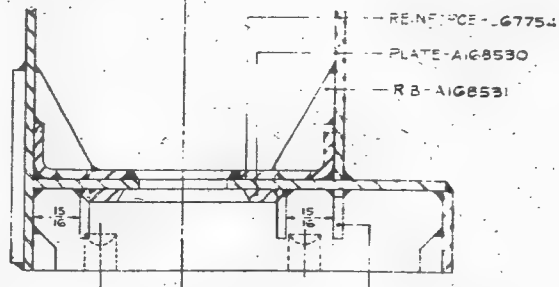
SUBMITTED

EXAMINED

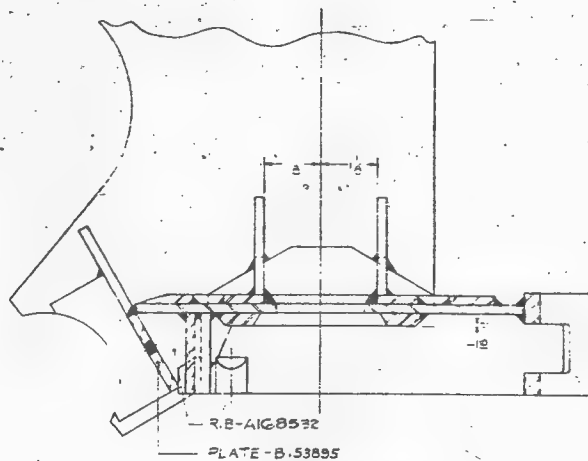
D33950

ORDNANCE DEPT USA

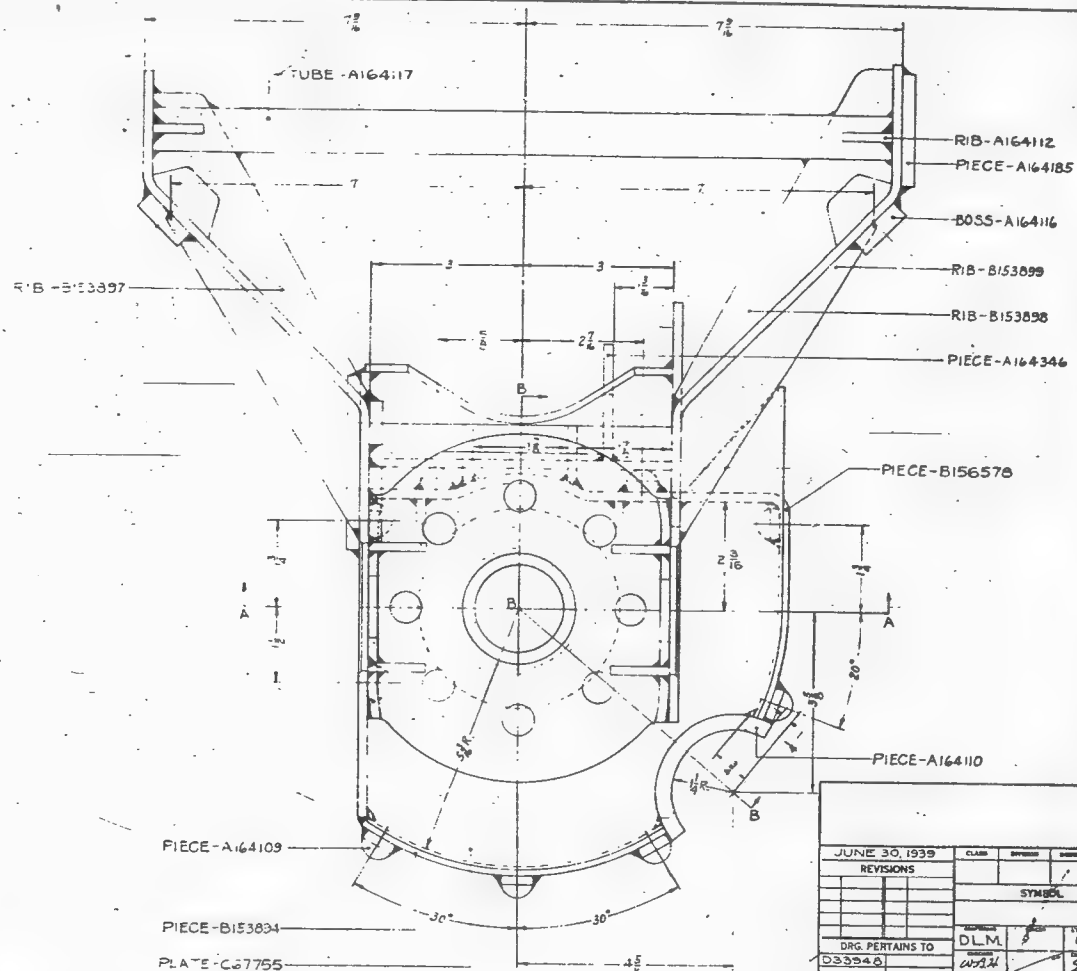
MICROFILM - A44 - 218



SECTION A-A



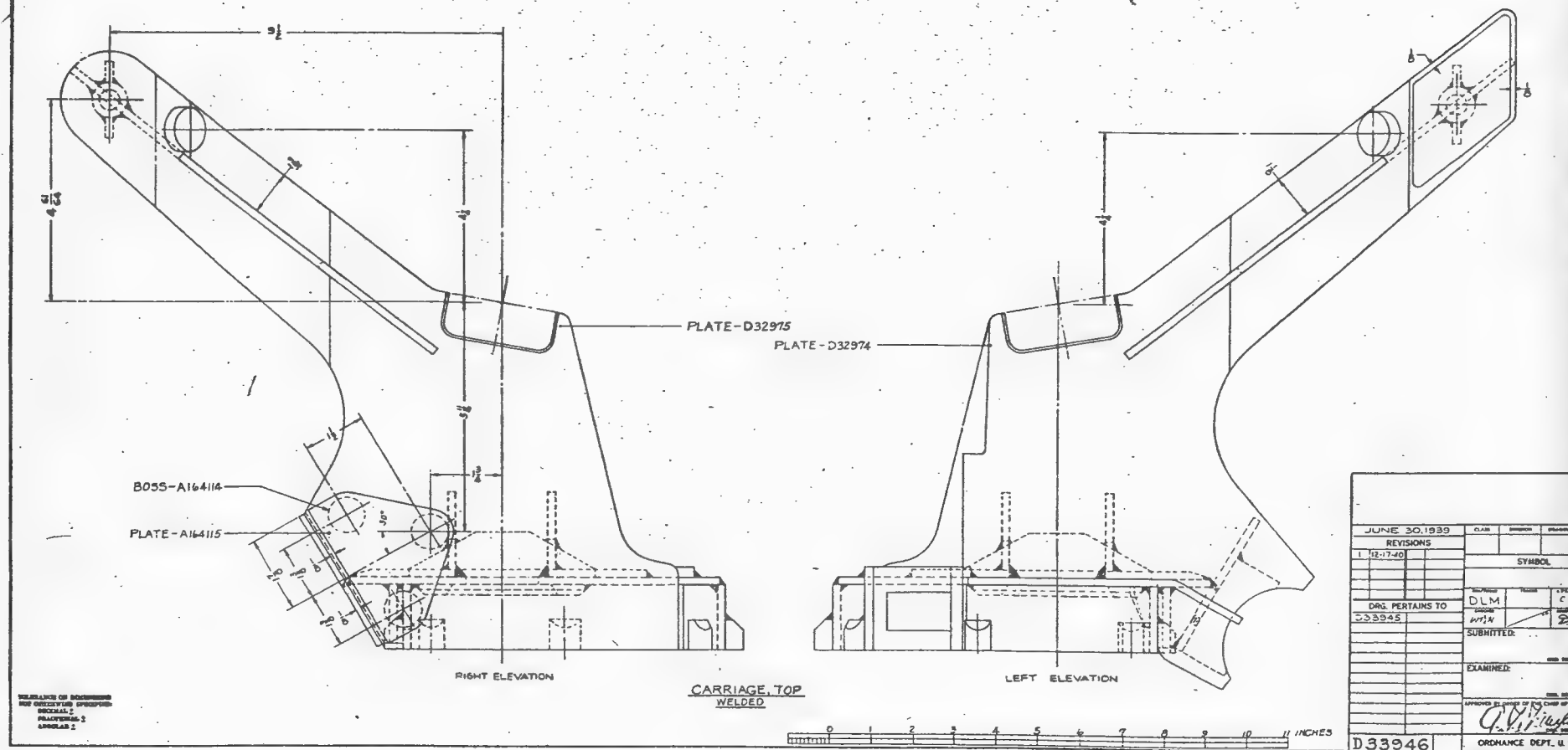
SECTION B-B-B



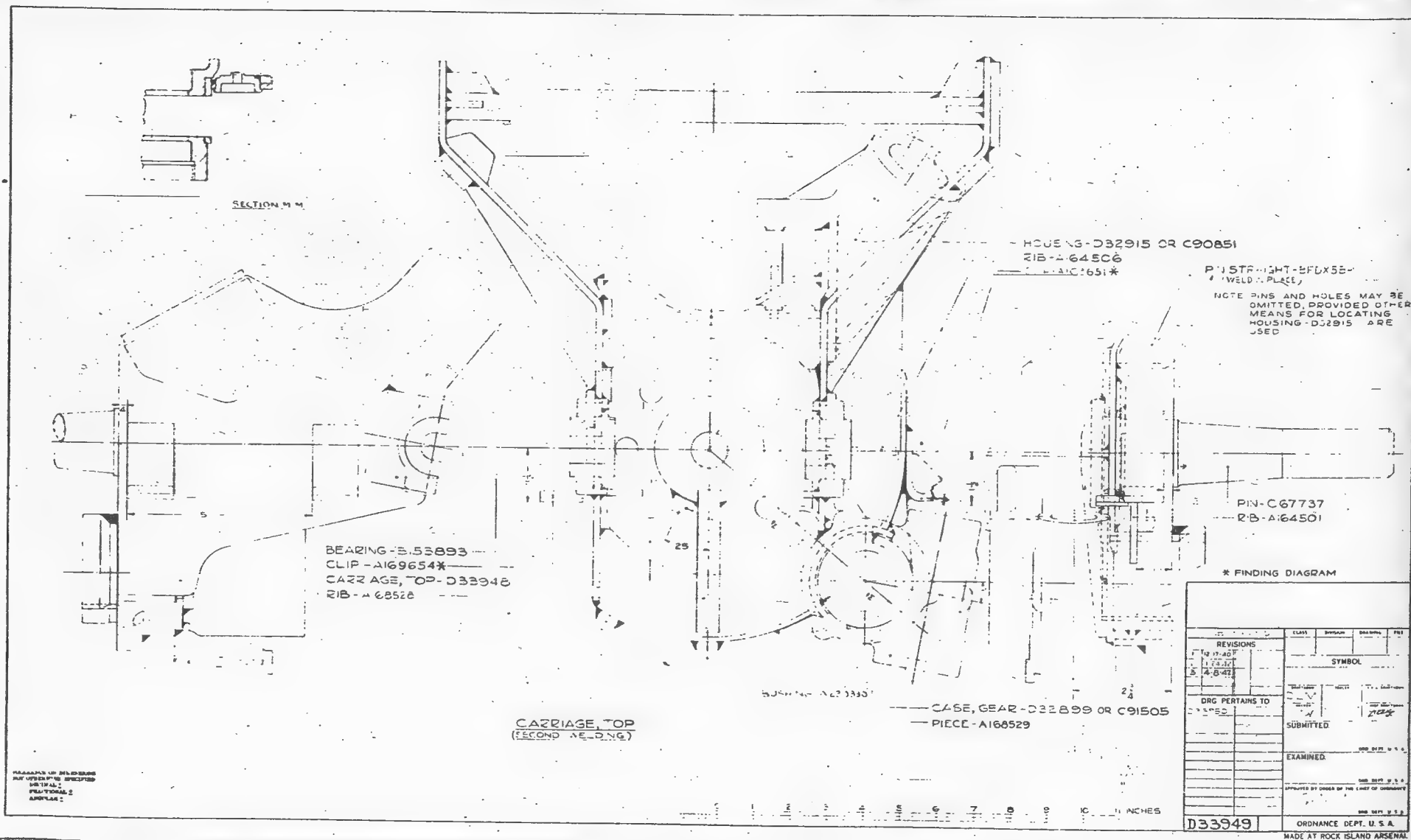
CARRIAGE TOP
DE-DEP D33945
FOR OTHER VIEWS SEE D33946

JUNE 30, 1939		CLASS	OFFICE	CHARGE	FILE
REVISIONS					
SYMBOL					
DLM					
DRG. PERTAINS TO					
D33946					
SUBMITTED					
EXAMINED					
ORDNANCE DEPT. U.S.A.					
MADE AT ROCK ISLAND ARSENAL					

MICROFILM - A44 - 223



MICROFILM - A 44 - 212



MICROFILM - A44 - 240

HEAT TREATMENT AND FINAL FINISH

PHYSICAL PROPERTIES		JUNE 30, 1939	
		REVISIONS	
Y. P.		1	4-12-40
T. S.		2	8-30-40
EL. 2			
RED			
BR.			
ROCK			
SCL.			

DRG. PERTAINS TO

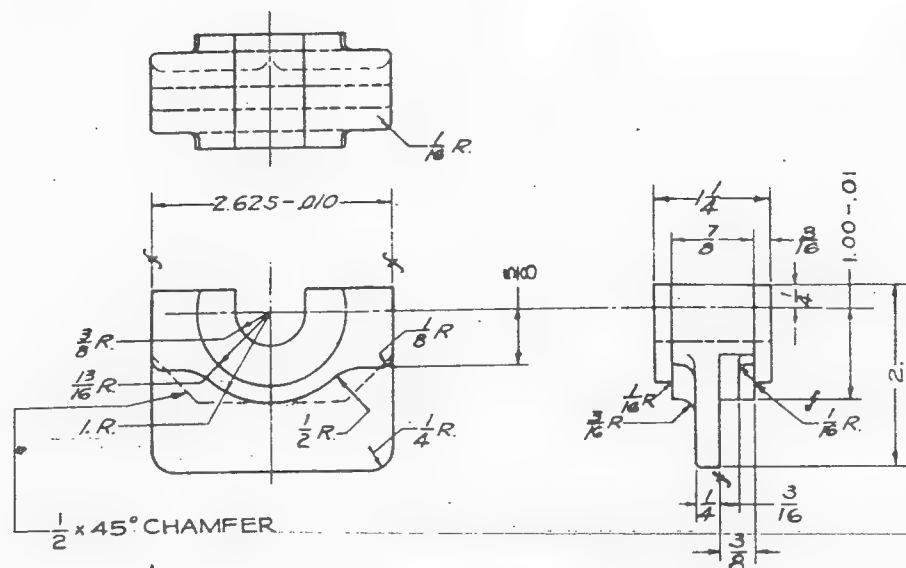
D33085
D33949
D50053

SYMBOL

DRAWN W.J.H.	TRACED	L.O'S DRAFTSMAN C.R.
CHECKED R.A.W.R.		CHIEF DRAFTSMAN

SUBMITTED:

ORD. DEPT. U. S. A.
APPROVED BY CHIEF OF THE CHIEF
OF ORDNANCE
J. V. Hinkle
ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSENAL



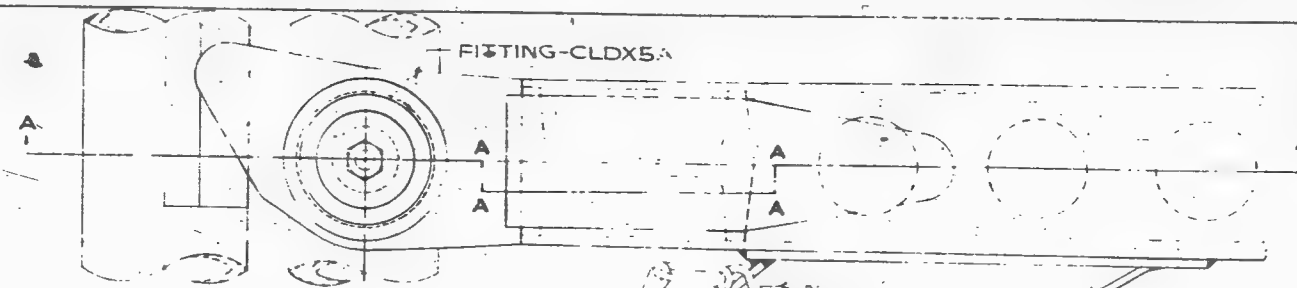
BEARING
STEEL WD3115
AS FORGED

B153893

SCALE 1/4"

B153893

HEAT TREATMENT & FINAL FINISH		PHYSICAL PROPERTIES				A157690 FEB. 14, 1936									
		T. P.	RED	SCL	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">REVISIONS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">10-9-36</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">4-12-40</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">11-20-40</td> </tr> </tbody> </table>			REVISIONS		2	10-9-36	3	4-12-40	4	11-20-40
		REVISIONS													
		2	10-9-36												
3	4-12-40														
4	11-20-40														
T. E.	DR														
EL. 2	ROCK														
<p> <small>ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONAL: 1/64 ANGULAR: 0°15'</small> </p> <p style="text-align: center;"> PIN STEEL WDX1020 COLD FINISHED </p> <p style="text-align: right;"> <small>SCALE 1/1</small> </p>		DRG. PERTAINS TO 6144900			SYMBOL OAP 2670										
		DRAFTSMAN	TRACER	L.S. DRAFTSMAN <i>[Signature]</i>											
		CHECKED	[Signature]	CHIEF DRAFTSMAN <i>[Signature]</i>											
		SUBMITTED:			<small>ORD. DEPT. U. S. A.</small>										
		<small>APPROVED BY ORDER OF THE CHIEF, OF ORDNANCE</small> <i>[Signature]</i>			<small>ORD. DEPT. U. S. A.</small>										
A157690			ORDNANCE DEPT. U. S. A.												



FITTING-CLDX5A

PHYSICAL PROPERTIES		REVISIONS	
Y P		3	3-25-42
T S		4	4-18-42
EL 2		5	11-8-43
RED			
DR			
ROCK			
SCL			

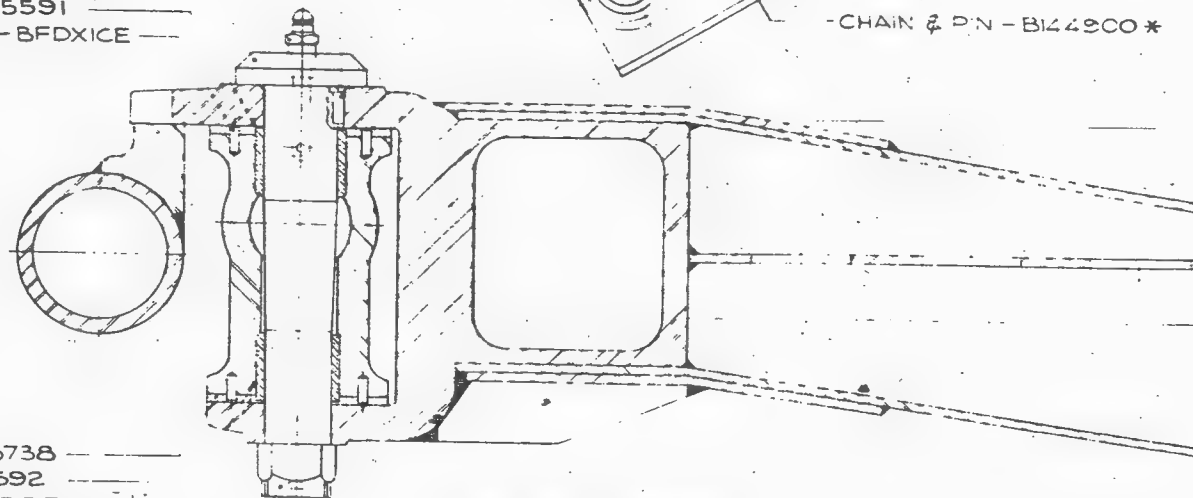
DRG PERTAINS TO

1-105-1
1-120-1

KEY - A168688
FITTING - A168822
PIN - B156552
BUSHING - B195591
PIN, STRAIGHT - BFDXICE

LOCATE AT ASSEMBLY

-CHAIN & P/N - B144900 *



SECTION A-A-A-A-A

CONNECTION, TRAIL

WASHER - A168738
BUSHING - B195592
NUT, CASTLE - BBFX2C
PIN, COTTER - BFAIDK

SUPERSEDES OLD TRACING C67841,
UNDER REVISION DATE OF 3-25-42

0 1 2 3 4 5 6 7 8 9 10 INCHES

C67841

* FINDING DIAGRAM

SYMBOL	
SECTION	100 20 100 20
CHECKER	100 20
SUBMITTED	100 20
APPROVED BY ORDER OF THE CHIEF	100 20
ORDNANCE DEPT. U. S. A.	100 20

ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 - 277

CUP, OIL - CLFX2A

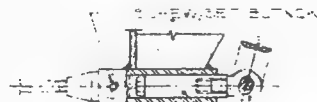
BEARING, THRUST - A168685
BUSHING - A168718
GEAR, SHAFT - B156659
NUT - B156627
SCREW, SET - BCTX1BB

SUPPORT - C68000

PIN, STRAIGHT - BFDXICR

KEY - BGBXI - $\frac{3}{16}$ SQUARE X $\frac{3}{4}$ LONG

SECTION A-A



EYE - A164278
PLUNGER - A164271

SECTION B-B

SCREW, SET - BCTX1BB
BUSHING - A168718
PIN, STRAIGHT - BFDXICR
SPRING, LOCKING - A169768
COLLAR - A168971
NUT - A168967
SCREW, MACH - BCTX3CD
LINK - B156672
PIN, HDLS - BFDX1BQ

KNOB - B156673
PLUNGER - A168126

DISK - A168125
PIN, STRAIGHT - BFDX2AC
PIN - A168125
ROLLER - A169422
PIN, COTTER - BFDX1BB

PIN, HDLS - BFDX1AH
PIN, COTTER - BFDX1BB

CONTROLS, ELEVATING AND FIRING D34051

REV. NO.		CLASS	DATE	BY
REVISIONS				
1	5-22-52			
2	2-22-53			
3	1-7-54			
4	11-30-54			
5	12-2-55			
DRG. PERTAINS TO		SYMBOL		
D34051		V. 1.1		
SUBMITTED:		EXAMINED:		
APPROVED BY DESIG. OF THE CHIEF OF BUREAU:		APPROVED BY DESIG. OF THE CHIEF OF BUREAU:		
D34051		ORDNANCE DEPT. U.S.A.		
MADE AT ROCK ISLAND ARMO.				

MICROFILM - A44 - 005

SCREW, SET- BCTXIAD
(TAP HOLE 1/8 DEEP)
CUP, OIL- CLFX2A

BEARING, THRUST- A16865
BUSHING- A168718
NUT- B156627
SEAL, SH- FT- B193888

SCREW, SET- BCTX1BB

SHOULDER- C16971
SUPPORT- C91615 *

BUSHING- A169106
NUT- A168967
COLLAR- A168971
PIN, STRAIGHT- BFDX1DP
SPRING, LOCKING- A169768
SCREW, MACH- BCCX3CD

PIN, COTTER- BFAIXDG
NUT, HEX- BBHXIA
HANDWHEEL- C66338 *

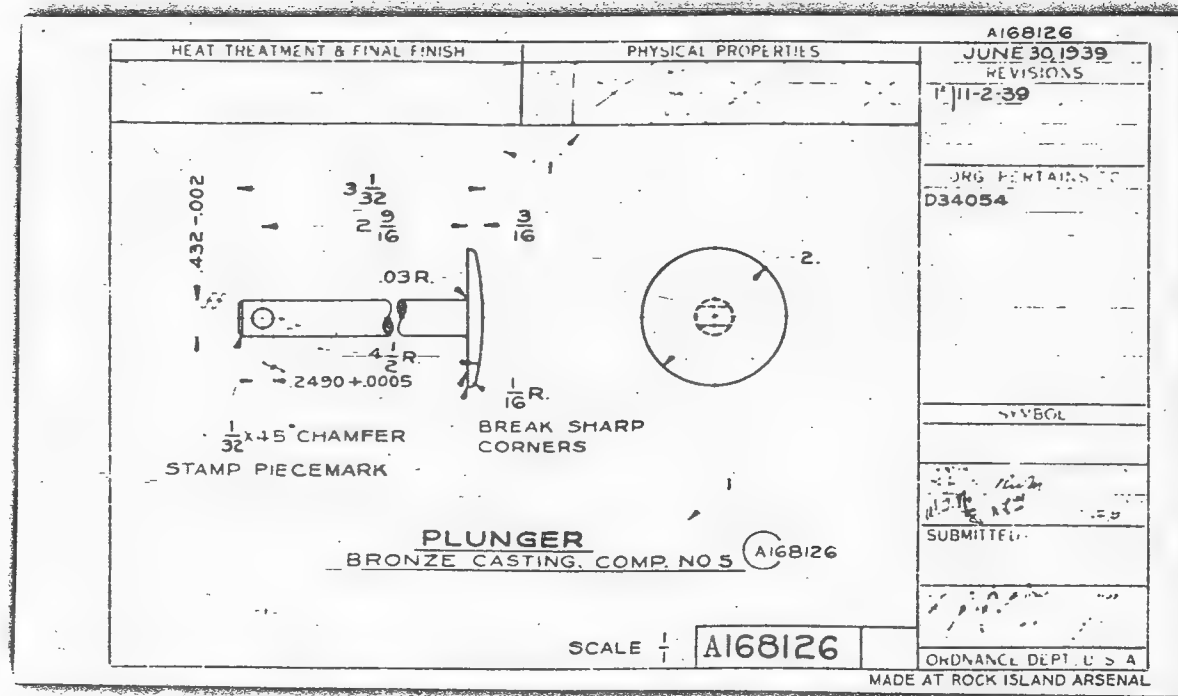
CONTROL, ELEVATING

NOTICE: THIS DRAWING IS
NOT TO BE USED FOR REPRODUCTION
OR FOR THE MANUFACTURE OF
ANY PART THEREOF WITHOUT THE
WRITTEN PERMISSION OF THE
NAVY DEPARTMENT.

22 ALTERNATIVE DESIGN
* FINDING DIAGRAM

OCT 18, 1941		DATE	DESIGN	REVISION	FILE
REVISIONS					
2. 5. 8. 42					
SYMBOL					
DRG PERTAINING TO					
D39450					
T.M.B.					
SUBMITTED					
EXAMINED					
APPROVED BY CHIEF OF THE BUREAU OF CONSTRUCTION					
D39449					
ORDNANCE DEPT. U.S.A.					
MADE AT ROCK ISLAND ARSENAL					

MICROFILM - A44 - 286



MICROFILM - A 44 -

HEAT TREATMENT AND FINAL FINISH

~~HEAT TREAT NO. 2~~

2

PHYSICAL PROPERTIES

Y P
T S 50000
EL 2
RED
BR
ROCK
SCL

JUNE 30, 1939

REVISIONS

12-40
24 8-4-41

DRG PERTAINS TO

SYMBOL

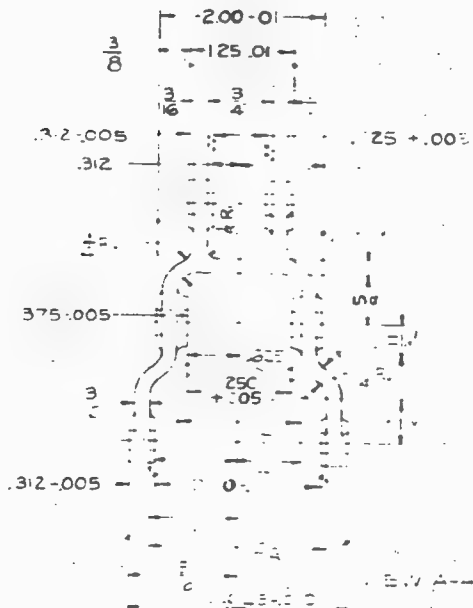
DESIGNED BY
CHECKED BY
SUBMITTED

SUBMITTED

APPROVED BY ORDER OF THE CHIEF
OF ADVANCE

ORDNANCE DEPT. U S A

MADE AT ROCK ISLAND ARSENAL

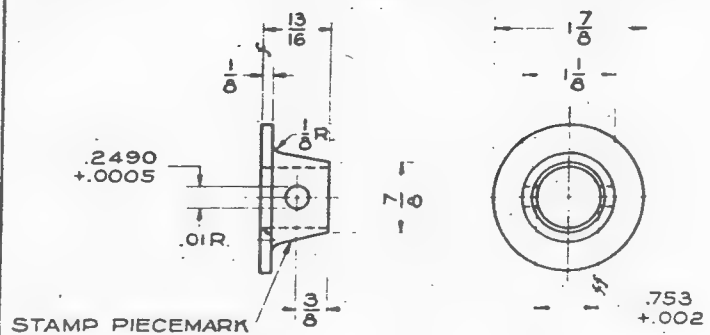


LINK
ALUMINUM ALLOY CASTING, GRADE NO. 4
BRONZE CASTING, COMP 5
OR MALLEABLE IRON CASTING, TYPE A

B156472

SCALE

B156472

HEAT TREATMENT & FINAL FINISH	PHYSICAL PROPERTIES	<div style="text-align: right;">A169352</div> <div style="text-align: center;">JUNE 30, 1939</div>																						
	<div style="display: flex; justify-content: space-around;"> <div> <p>STAMP PIECE MARK</p> <p>1</p> </div> <div> <p>SCALE $\frac{1}{1}$</p> </div> </div>	<div style="text-align: center;">REVISIONS</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">1</td> <td style="width: 50%;">4-12-40</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> <div style="text-align: center;">DRG PERTAINS TO</div> <div style="border: 1px solid black; padding: 2px;">D34054</div> <div style="text-align: center;">SYMBOL</div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> W.T.N. <i>[Signature]</i> </div> <div style="text-align: center;">SUBMITTED</div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> APPROVED BY: <i>[Signature]</i> </div> <div style="text-align: center;">ORDNANCE DEPT. U. S. A.</div>	1	4-12-40																				
1	4-12-40																							
<p>DISK</p> <p>MANGANESE BRONZE, HALF HARD CLASS A</p> <p>NOTE: - BREAK ALL SHARP CORNERS</p>																								
<div style="border: 1px solid black; padding: 2px; display: inline-block;">A169352</div>																								
MADE AT ROCK ISLAND ARSENAL																								

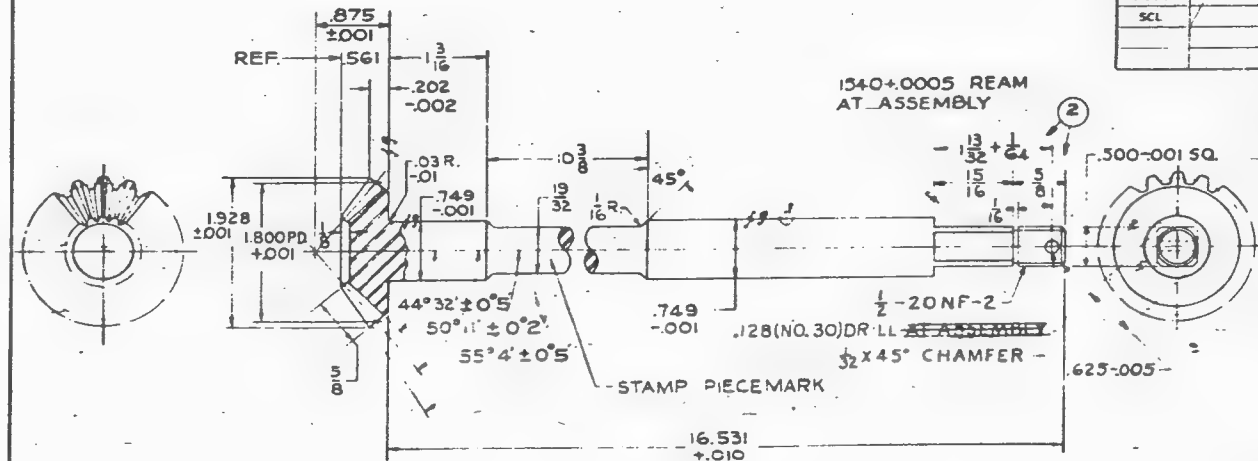
MICROFILM - A 44



HEAT TREATMENT AND FINAL FINISH

PHYSICAL PROPERTIES	
Y P	
T S	
EL 2	
RED	
BR	
FOCK	
SCL	

OCT. 18, 1941	
REVISIONS	
1	7-18-42
2	11-10-43



DRG. PERTAINS TO
D39449

SYMBOL

DRAFTSMAN
TMB
CHECKED
SUBMITTED:

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE

ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSENAL

GEAR, SHAFT
STEEL WD4140 - COLD FINISHED
18 TEETH, 10 DIAMETRAL PITCH (.3142 C P)
STD 14 1/2° INVOLUTE FORM
TO MESH WITH GEAR, BEVEL-A168654
WITH MAX. ALLOWABLE BACKLASH OF .006

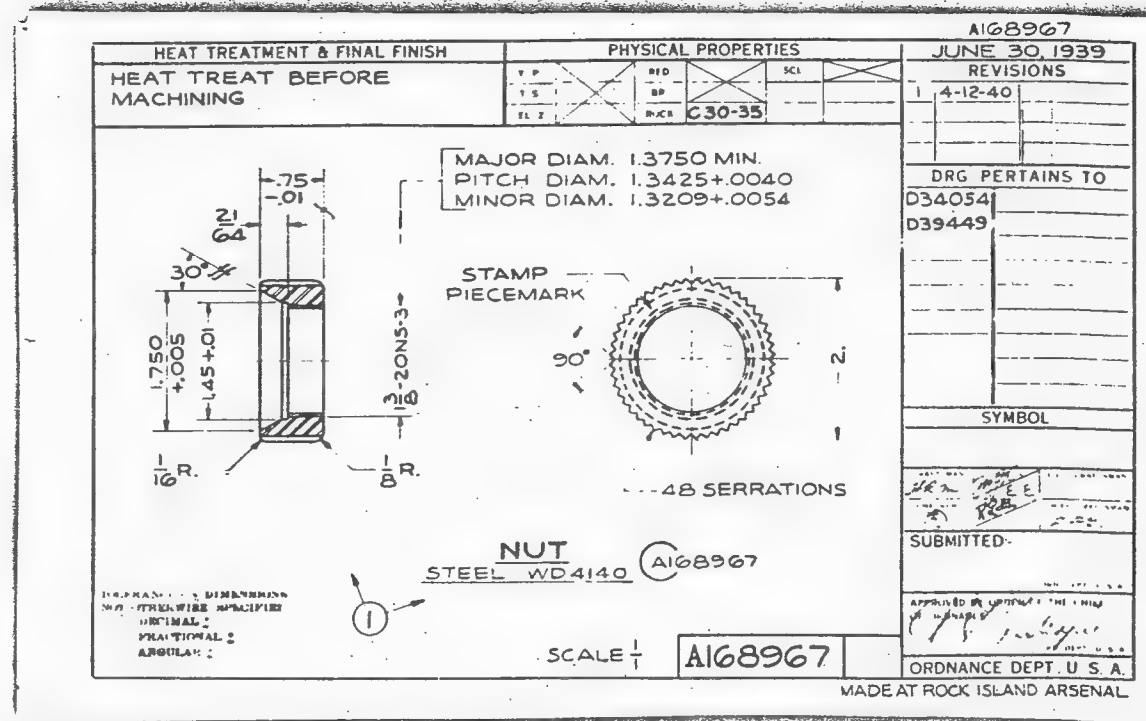
B193888

SCALE 1/2" = 1"
B193888

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED
FRACTIONAL: 1/64
ANGULAR: 1°

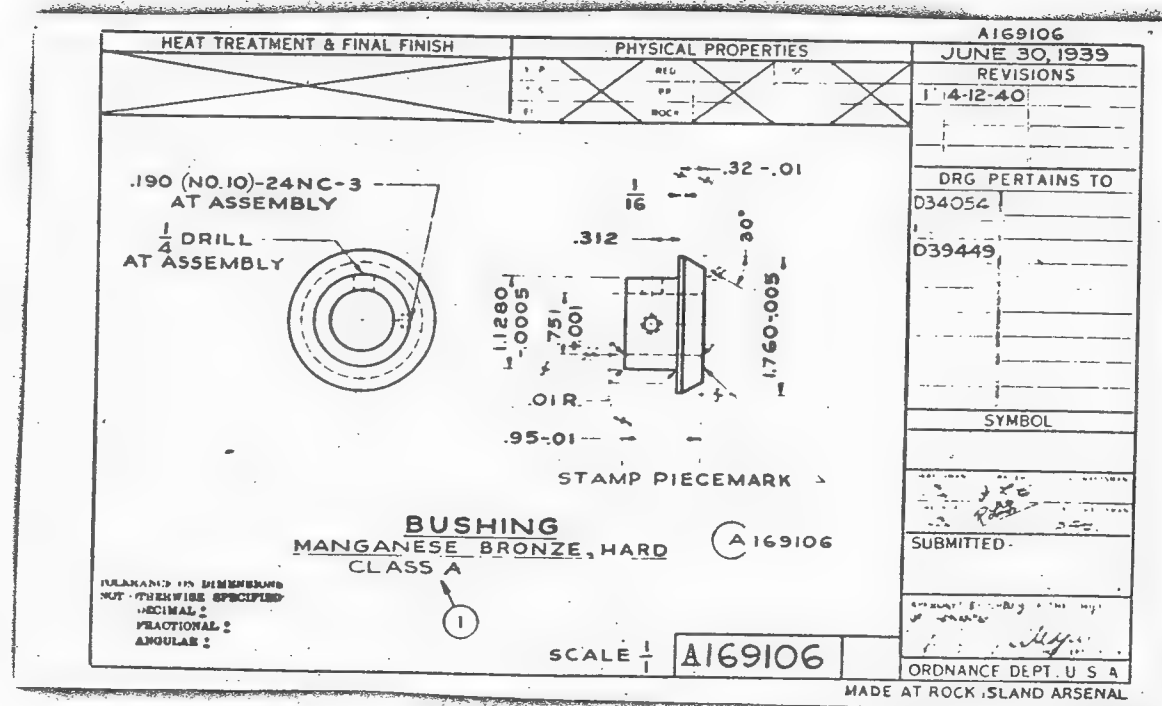
MICROFILM - A44





MICROFILM - A44 -

2 1



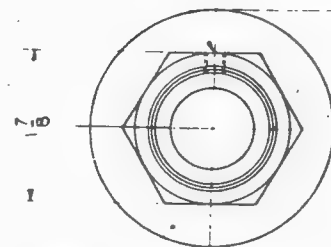
MICROFILM - A 44 -



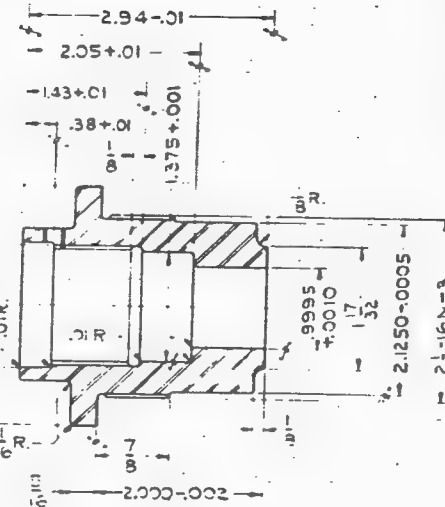
HEAT TREATMENT AND FINAL FINISH

$\frac{1}{4}$ -20 NC-3, AT ASSEMBLY

1.5625 \pm .0010



STAMP PIECEMARK —



NUT
STEEL WDX1315
AS ROLLED

(B156627

SCALE $\frac{1}{1}$

B156627

PHYSICAL
PROPERTIES

Y	
T	
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RED	
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JUNE 30, 1939
REVISIONS

1 4-12-40

DRG PERTAINS TO

D34054
D39449

SYMBOL

E.O. E.H.

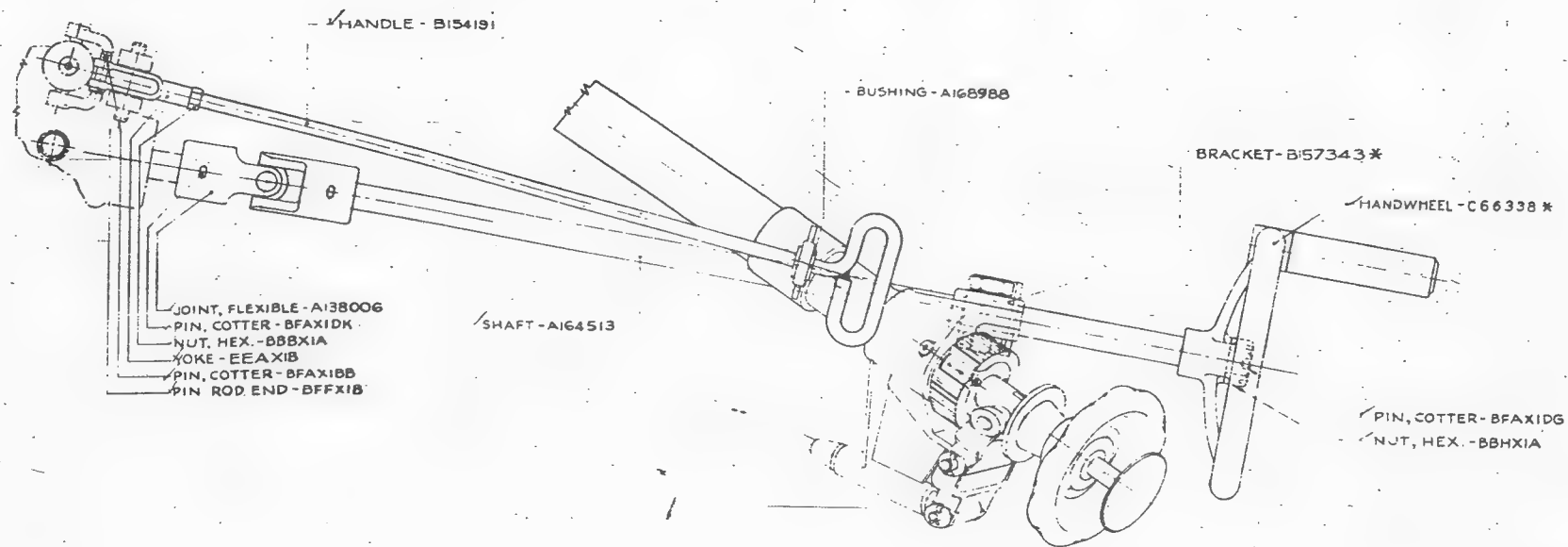
WTN.

SUBMITTED

APPROVED BY ORDER OF THE CHIEF
OF ORDNANCE.

ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A 44



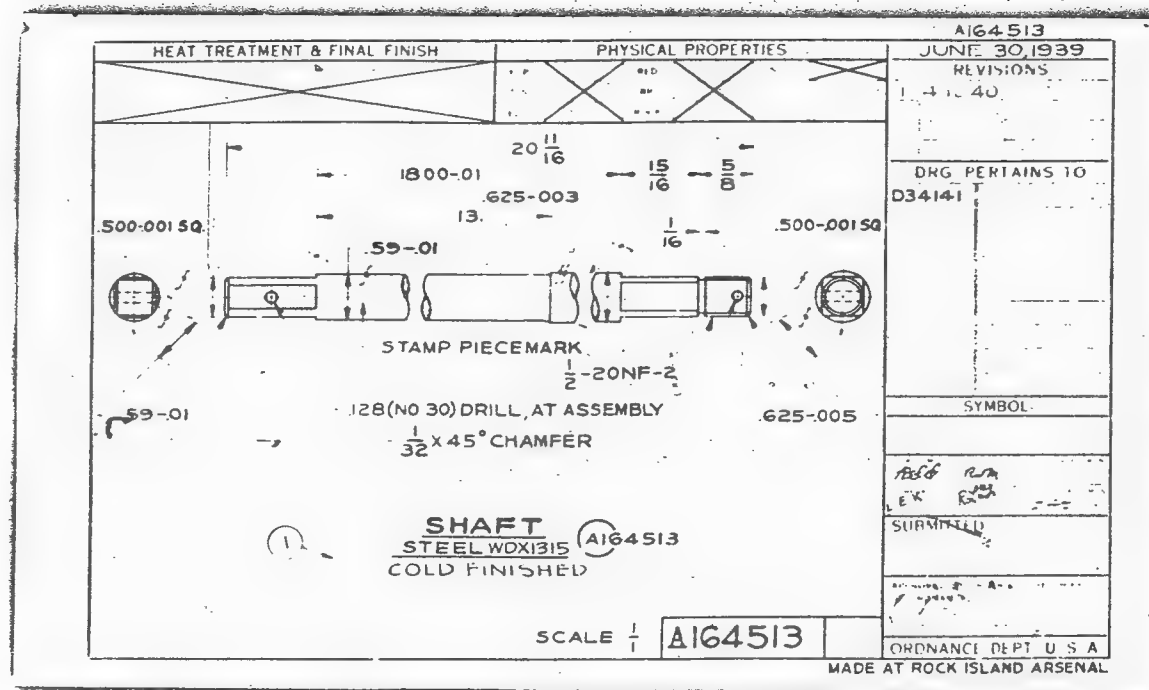
CONTROLS

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* FINDING DIAGRAM

JUNE 30, 1939		CLASS	SECTION	DRAWING	FILE
REVISIONS					
1	12-14-39				
SYMBOL					
DRG PERTAINS TO					
1-105-1					
SUBMITTED					
EXAMINED					
APPROVED BY: <i>[Signature]</i>					
ORDNANCE DEPT. U.S.A.					
MADE AT ROCK ISLAND ARSENAL					

MICROFILM - A44 - 306



MICROFILM - A44 -



PHYSICAL PROPERTIES		JUNE 30, 1939.	
		REVISIONS	
V. P.		1	12-14-39
T &		2	4-12-40
EL. 2			
RED			
BR.			
ROCK.			
SCL.			

ENC. PERTAINS TO

[illegible]

DRAFTSMAN 13:28 CHIEF CLERK <i>B. A. H.</i>	TRACKS 09	L.D.'S DRAFTSMAN CHIEF DRAFTSMAN
--	--------------	-------------------------------------

SUBMITTED:

ORD DEPT W S

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE

C. V. Wilson

ORDNANCE DEPT. U. S.

MADE AT ROCK ISLAND ARSENAL

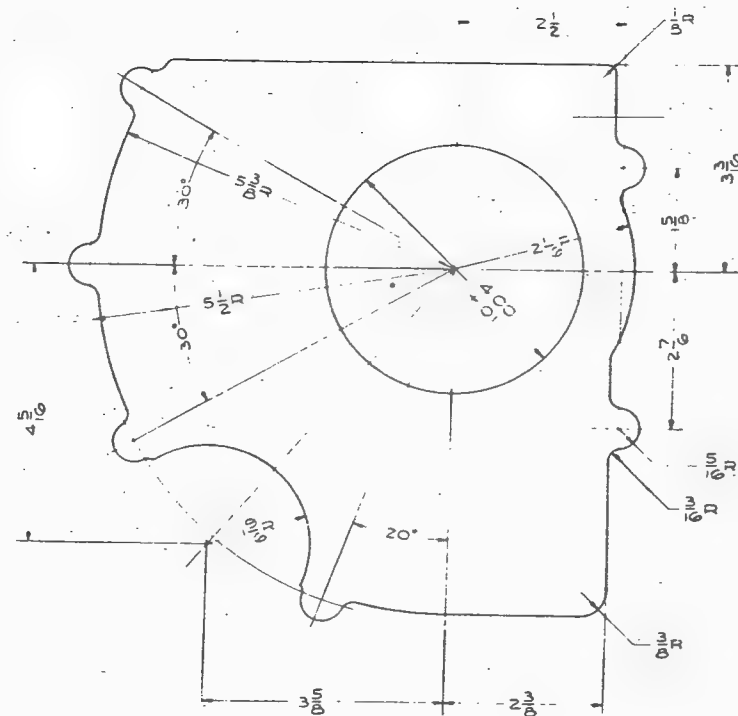


PLATE
PLAIN CARBON STEEL
1/8 THICK, HOT ROLLED, PICKLED

C67769

SCALE T C67769

PHYSICAL PROPERTIES	JUNE 30, 1933 REVISIONS
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DPG PERTAINS TO

SYMBOL
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ORDNANCE DEPT. U. S. A.

MADE AT ROCK ISLAND ARSENAL

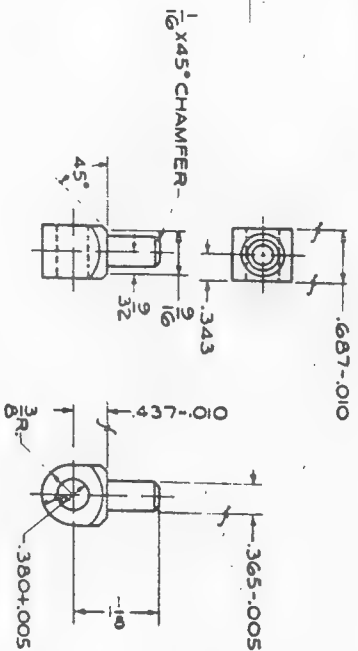
MICROFILM - A 44



MICROFILM - A 44 -

337

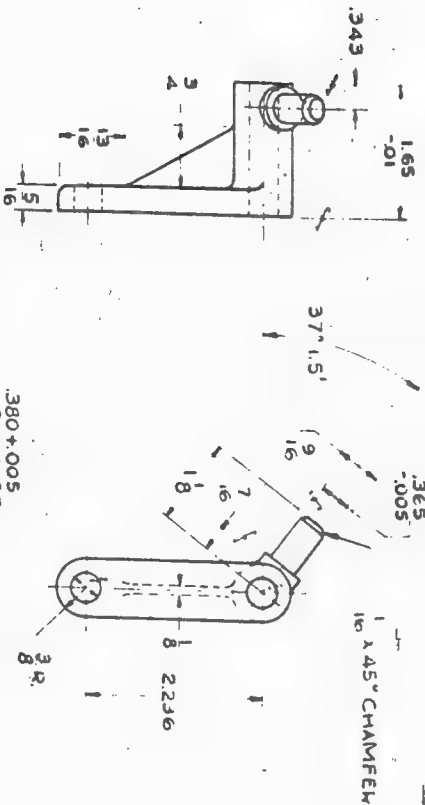
HEAT TREATMENT & FINAL FINISH		PHYSICAL PROPERTIES	
		JUNE 30, 1939	
		REVISIONS	
		1 12-40	
		DRG PERTAINS TO	
		D33860	
		SYMBOL	
		SUBMITTED	
		APPROVED BY	
		ORDNANCE DEPT U S A	
		MADE AT ROCK ISLAND ARSENAL	



SCALE 1/4" = 1"

A167936

MICROFILM - A44 -



PIECE (B157413)
STEEL WDX1020
AS FORGED

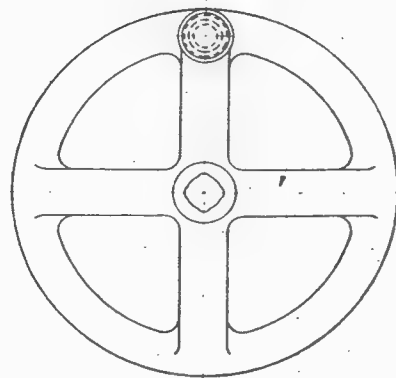
SCALE 1/4" = 1"

B157413

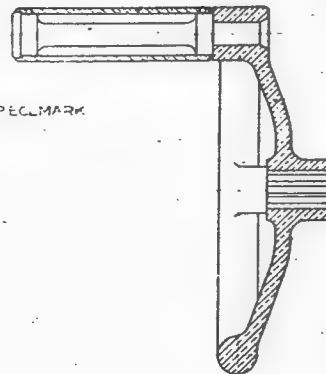
ORDNANCE DEPT U
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 -

PHYSICAL PROPERTIES		DATE 03, 1939	
		REVISIONS	
Y P			
T S			
EL 2			
RED			
BL			
ROCK			
SCL			
		DRG. PERTAINS TO	
		D34141	
		D39449	
		D41235	
		D41294	



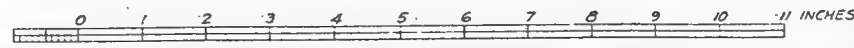
STAMP RECL. MARK



STEM-A164138
SLEEVE-A164139

HANDWHEEL-B153909

HANDWHEEL C66338



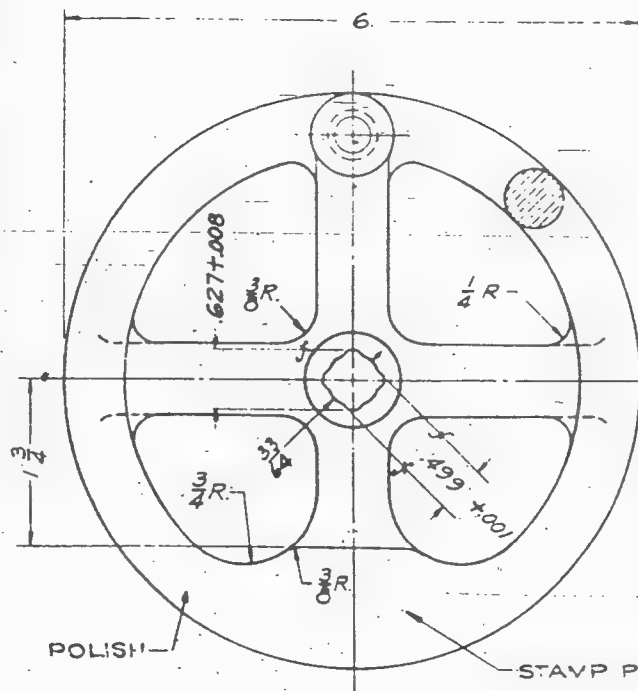
C66338

SYMBOL		
DESCRIPTION	DATE	BY
HRM		
LIBRARY		
SUBMITTED		
APPROVED BY ORDNANCE		
ORDNANCE		

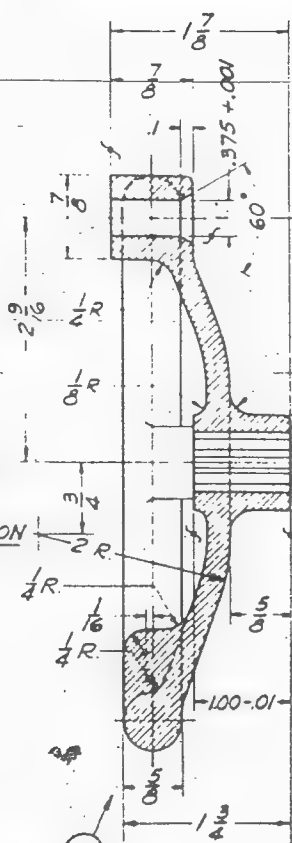
MICROFILM - A44 - 2 1 0

HEAT TREATMENT AND FINAL FINISH
~~HEAT TREATING~~

3



SPOKE SECTION



COINED SURFACE

ALTERNATE SECTION

4

PHYSICAL PROPERTIES	
T. P.	1
T. S.	2
EL. 2	3
RED	4
DR.	
ROCK	
BCL	

JUNE 30, 1939	
REVISIONS	
1	8-28-39
2	4-12-40
3	8-4-41
4	6-17-42

DRG. PERTAINS TO

C66338

SYMBOL

DRAFTSMAN H.R.M.	TRACER	L.T.S. DRAFTSMAN C.A.
CHECKER R.E.H.		COPY DRAFTSMAN

SUBMITTED:

ONE DEPT. U.S.A.

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE

ONE DEPT. U.S.A.

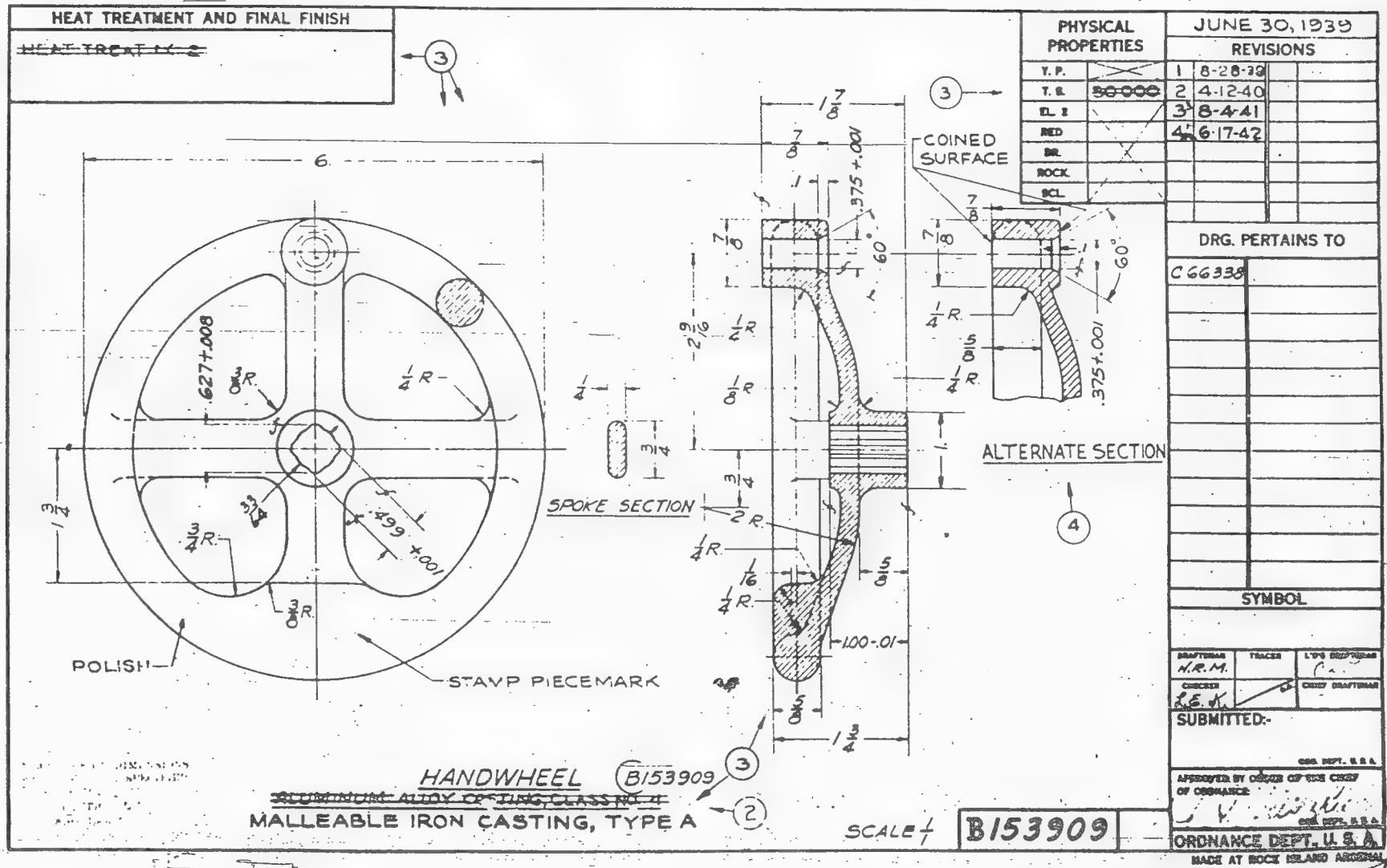
ORDNANCE DEPT. U.S.A.

MADE AT ROCK ISLAND ARSENAL

HANDWHEEL (B153909)
~~ALUMINUM ALLOY CASTING, CLASS NO. 11~~
 MALLEABLE IRON CASTING, TYPE A

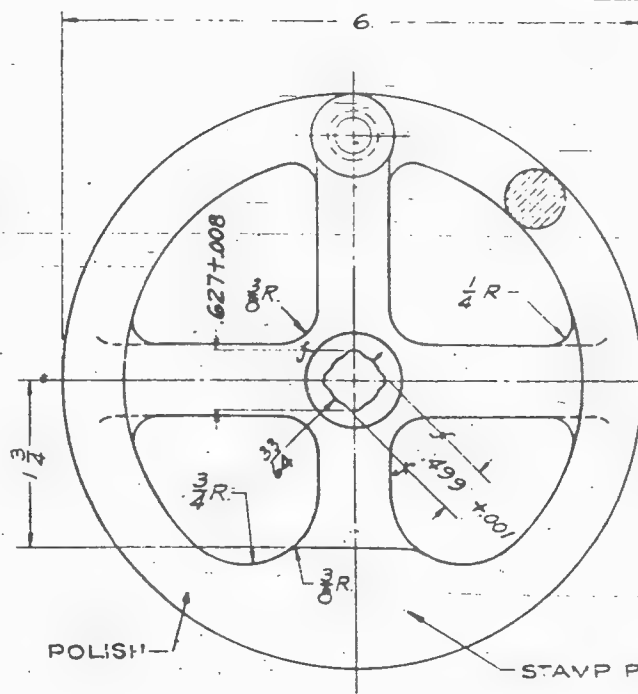
SCALE

B153909

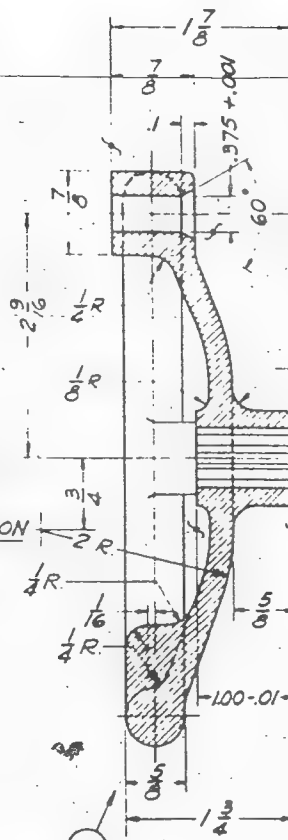


HEAT TREATMENT AND FINAL FINISH
~~HEAT TREATING~~

3



SPOKE SECTION



COINED SURFACE

ALTERNATE SECTION

PHYSICAL PROPERTIES	
V. P.	
T. S.	50-000
EL. 2	
RED	
BR.	
ROCK	
SCL	

JUNE 30, 1939	
REVISIONS	
1	8-28-39
2	4-12-40
3	8-4-41
4	6-17-42

DRG. PERTAINS TO

C66338

SYMBOL

DRAFTER	TRACER	1798 DRAFTER
N.R.M.		P.A.
CHECKER		CHIEF DRAFTER
R.E.H.		

SUBMITTED:

ORD. DEPT. U. S. A.

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE:

ORDNANCE DEPT. U. S. A.

MADE AT ROCK ISLAND ARSENAL

HANDWHEEL (B153909)
~~ALUMINUM ALLOY CASTING, CLASS NO. 1~~
 MALLEABLE IRON CASTING, TYPE A

SCALE 1/4"

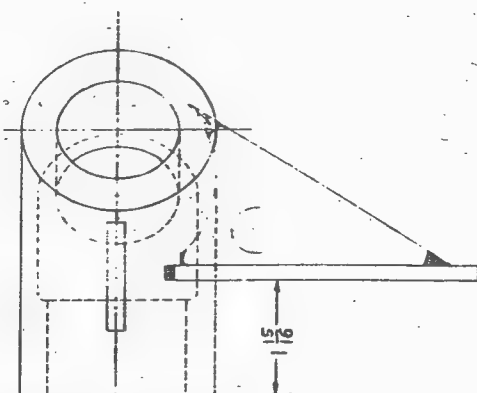
B153909

HEAT TREATMENT AND FINAL FINISH

PHYSICAL PROPERTIES	MARCH 4, 1942	
	REVISIONS	
1	2	20-42
2	6	24-42
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10		

DRG PERTAINS TO

C9085	



REFERS TO DUPLEX PRINTING
PRESS CO'S DRG. NO. D32915-1

NOT A STANDARD AREA USED
DRAWING
FRACTIONAL: 1/64
ANGULAR: 0°30'

RIB-A231062

RIB-A231066

RIB-A231064

TUBE-B195261

BOSS-A161854

RIB-A231061

TUBE-B195262

HOUSING
FIRST WELDING



C90850

APPROVED BY	DATE
16	
SUBMITTED	
APPROVED BY UNDER OF THE CHIEF	
OF VESSEL	
ORDNANCE DEPT U S A	
MADE AT ROCK ISLAND ARSENAL	

MICROFILM - A44 -

266

HEAT TREATMENT AND FINAL FINISH

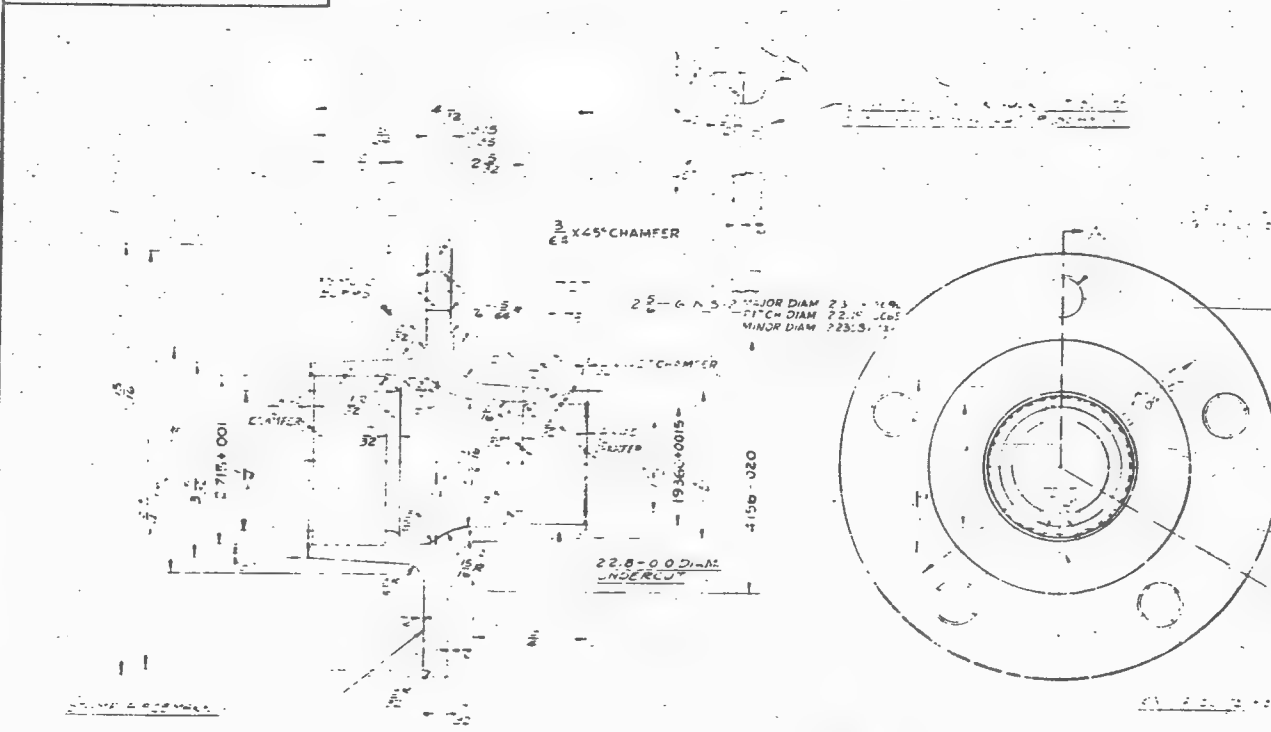
PHYSICAL
PROPERTIES

APRIL 14, 1942
REVISIONS

V P
T S
EL 2
REC
BW
ROCK
SCL

DRG PERTAINS TO

1-15
B:559.37



SECTION A-A

REFERS TO BUDD WHEEL CO'S
DRAWING NO. 45405-D

REVISIONS
BY
DATE
APPROVAL
A-1048

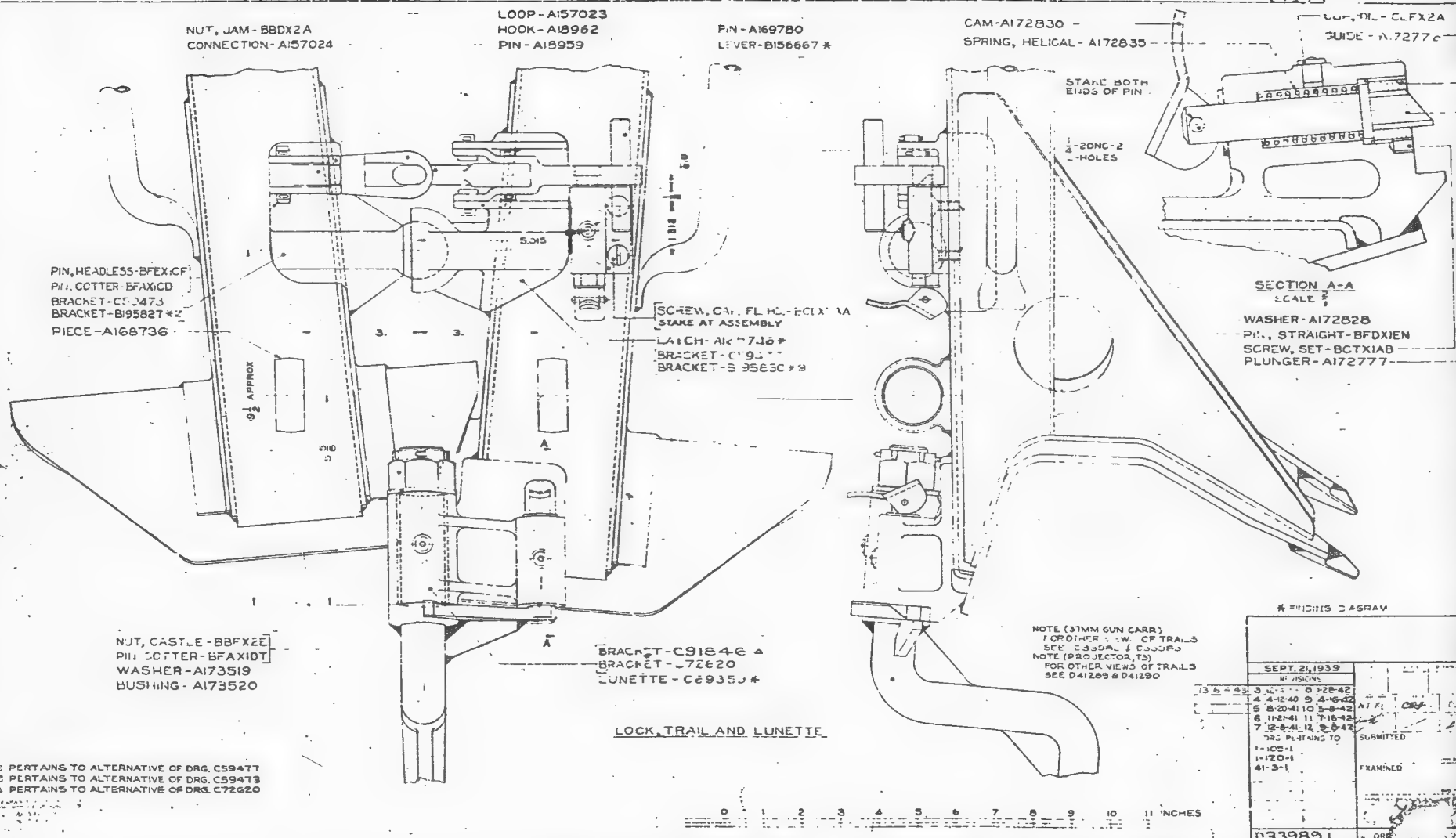
H.I.B. C. 51034
MALL IRON

91634

PKS
SUBMITTED:
1. 10. 11.
ORDNANCE DEPT. U.S.A.

MICROFILM - A 44





HEAT TREATMENT & FINAL FINISH				PHYSICAL PROPERTIES				DEC 17 - 1965	
T.P.	T.A.	ES	MS	Y.S.	T.S.	ELONG.	REDUCED AREA	REVISIONS	
								1	10-9-36
								2	4-12-40

DRG. PERTAINS TO

D31126
D33989
D54027

SYMBOL

SBL67

SUBMITTED:

APPROVED BY CHIEF OF THE CAMP OF COMBAT:

ORDNANCE DEPT. U. S. A.

SCALE 1/4" = 1"

A157023

MICROFILM - A 44 -

ALC

HEAT TREATMENT & FINAL FINISH				PHYSICAL PROPERTIES				DEC 17 - 1965	
T.P.	T.A.	ES	MS	Y.S.	T.S.	ELONG.	REDUCED AREA	REVISIONS	
								1	9-1-38
								2	9-7-39
								3	4-12-40

DRG. PERTAINS TO

D31126
D33989
D54027
D54550
D54551

SYMBOL

JAH 82

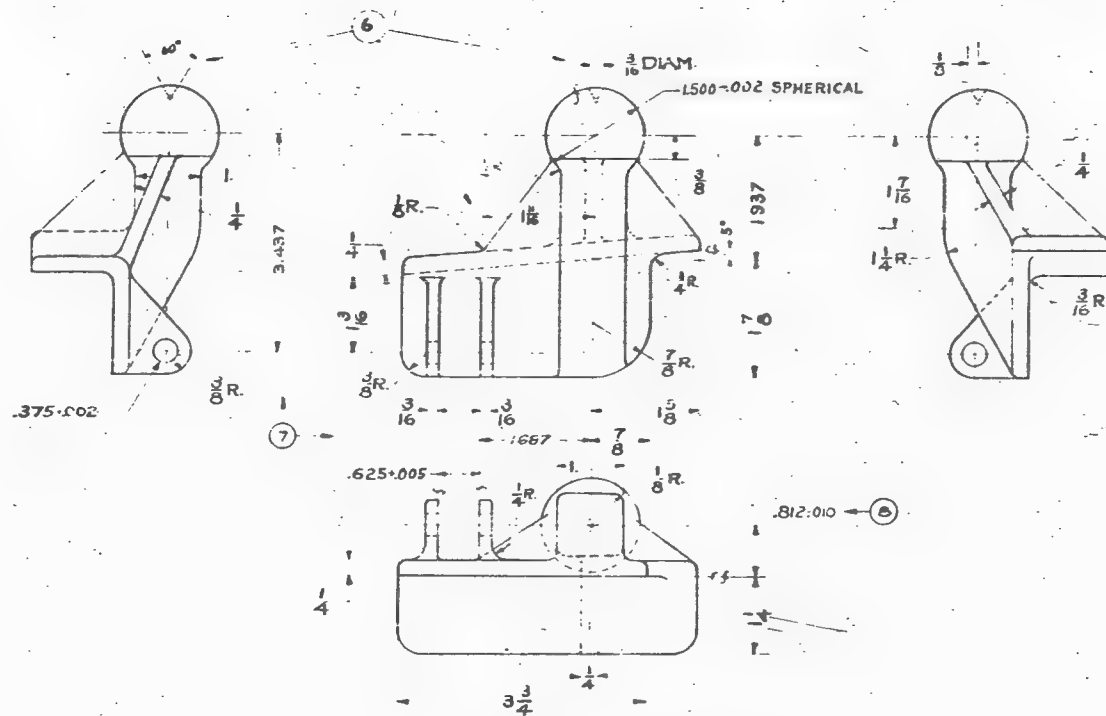
SUBMITTED:

APPROVED BY CHIEF OF THE CAMP OF COMBAT:

ORDNANCE DEPT. U. S. A.

SCALE 1/4" = 1"

A18962



BRACKET
STEEL CASTING, CLASS NO. 2

C59473-6

PROPOSED BY
DATE
APPROVED BY
DATE
0° 30'

SCALE 1/4"

C59473

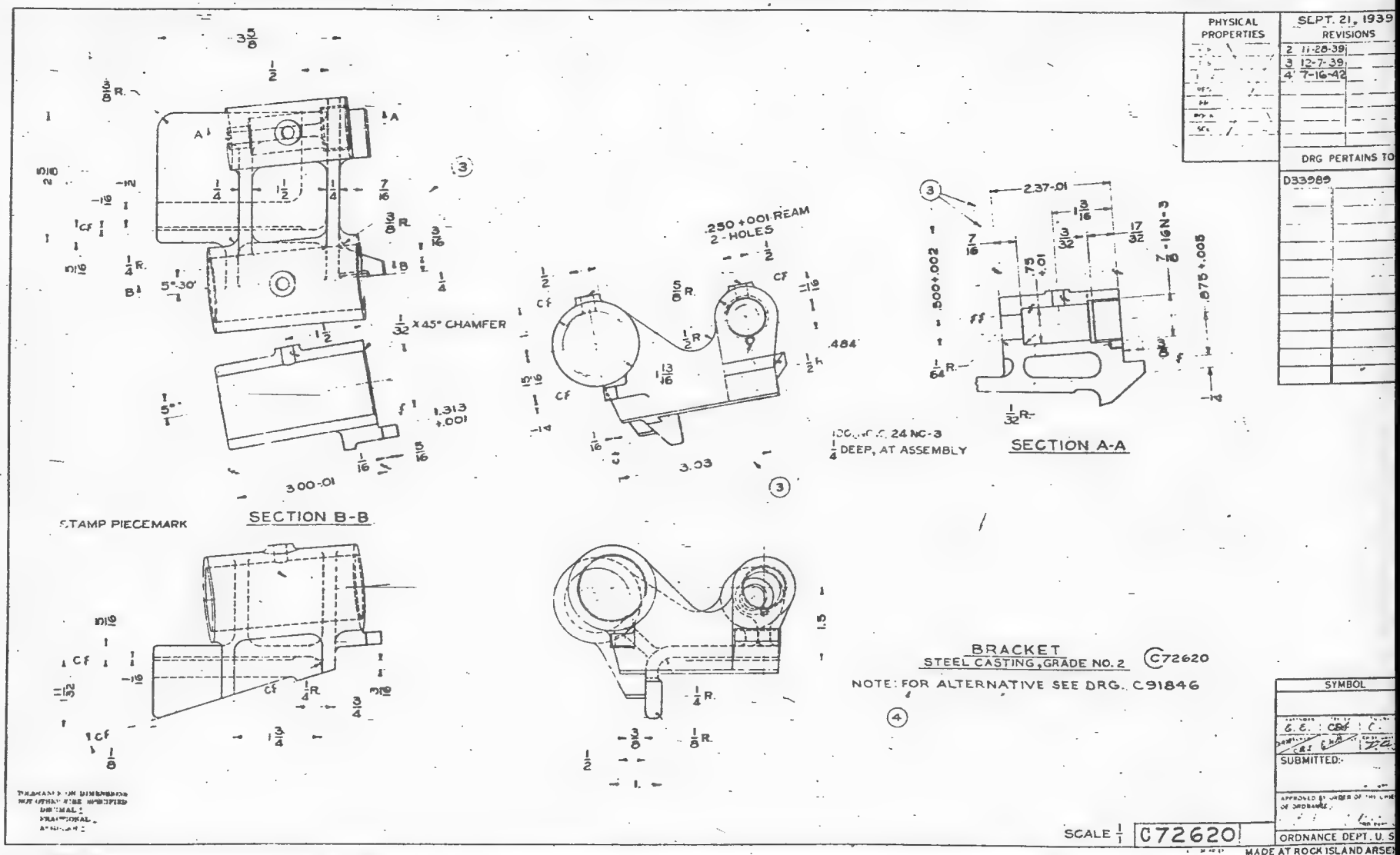
PHYSICAL PROPERTIES		MARCH 1, 1934	
		REVISIONS	
Y.P.		3	10-9-36
T.S.		4	2-10-37
CL. A		5	6-1-38
PPD		6	7-20-39
BR		7	4-5-41
R.C.		8	5-22-41
S.L.			

DRC PERTAINS TO	
C59508	
D7215	
D31126	
D33322	
D33989	
D54027	

SYMBOL	
PiB	0241
FSS	UFS
VGS	DEM.
SUBMITTED	
APPROVED BY	
DATE	
ORDNANCE DEPT. U. S. A.	

MICROFILM - A44 -



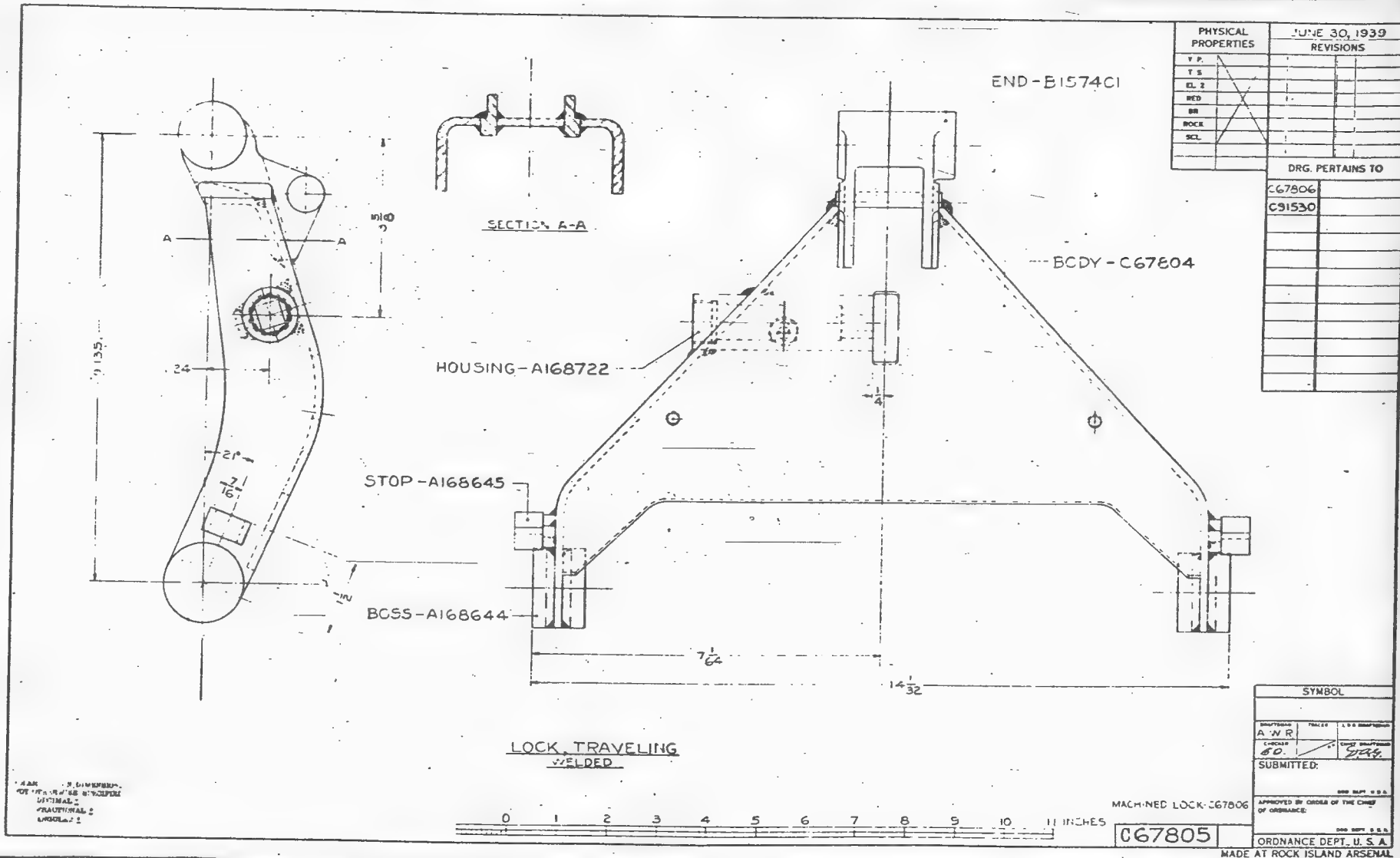


MICROFILM - A44 - 116



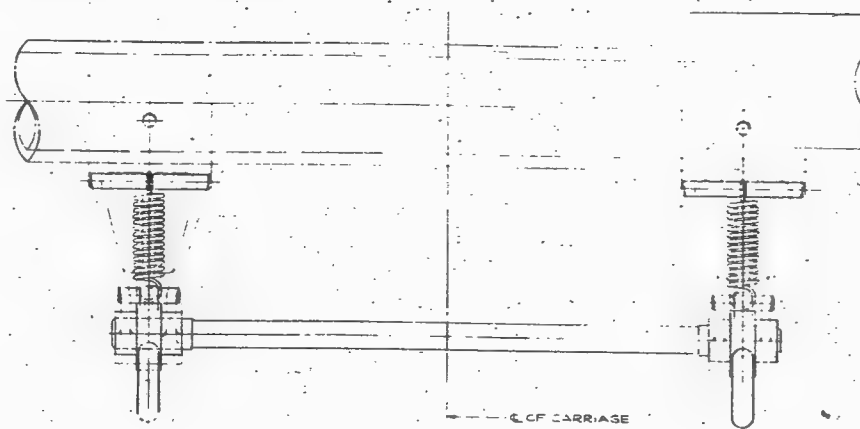
MICROFILM - A44

405



MICROFILM - A44 -

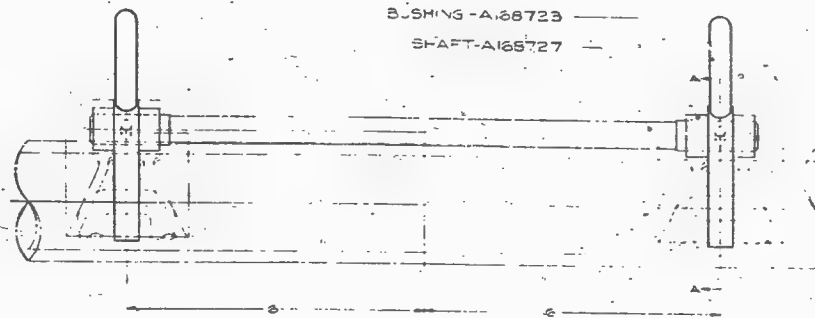
1 1 2



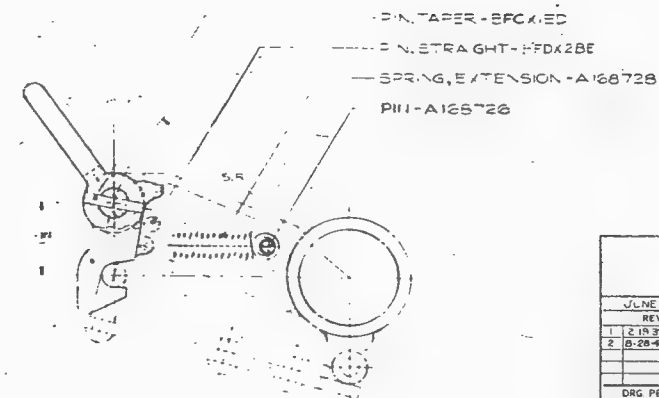
HOOK-A168724

BUSHING-A168723

SHAFT-A168727



MECHANISM, APRON LOCKING



PIN, TAPER-BECKED

BUSHING, STRAIGHT-BECKED

SPRING, EXTENSION-A168728

PHI-A168726

SECTION A-A

JUNE 30, 1939		CLASS	SYMBOL	REVISION
REVISIONS				
1	2 19 37			
2	8-28-40			
		SYMBOL		
ORG PERTAINS TO		BY	DATE	FILE NO.
1-105-1		DLM	10/2/39	
1-120-1		SUBMITTED		
		EXAMINED		
		DATE		
		APPROVED BY (signature)		
D34021		ORDNANCE DEPT, U.S.		
MADE AT ROCK ISLAND AFB				

MICROFILM - A44 - 430

SCREW, CAP. HEX. HD.-BCBX3CB
W. RE. LOCKING-BFWX1A
PIN, STRAIGHT-BFDX5R
BRACKET-B154015
BUSHING-A164356
CASE, GEAR-C67814
SCREW, CAP. HEX. HD.-BCBX1BD
WASHER, LOCK, SHAKEPROOF-BEAXIK

BUSHING-A164518
CAP-A 6490
WASHER-A 64396

WASHER-A169679
GEAR, BEVEL-A168655
SCREW, ELEVATING-B 56639
THIMBLE-A168665

BEARING, THRUST-A168684

PIN, STRAIGHT-BFDX2AC
CASE, GEAR-C67813
BUSHING-A168719
FITTING-A 68822

GEAR, SHAFT-B 566224
BUSHING-A168719
RETAINER, C.L.-A164397
NUT-A164191
PIN, COTTER-BFAX1BE
GEAR, BEVEL-A168654

SCREW, SET-BCTX2R
CUP-A168652
PIN, STRAIGHT-BFDX1BC

FITTING-A 28822

SCREW, SET-BCTX1BD

CONTROLS, ELEVATING AND Firing-D34054 *

MECHANISM, ELEVATING

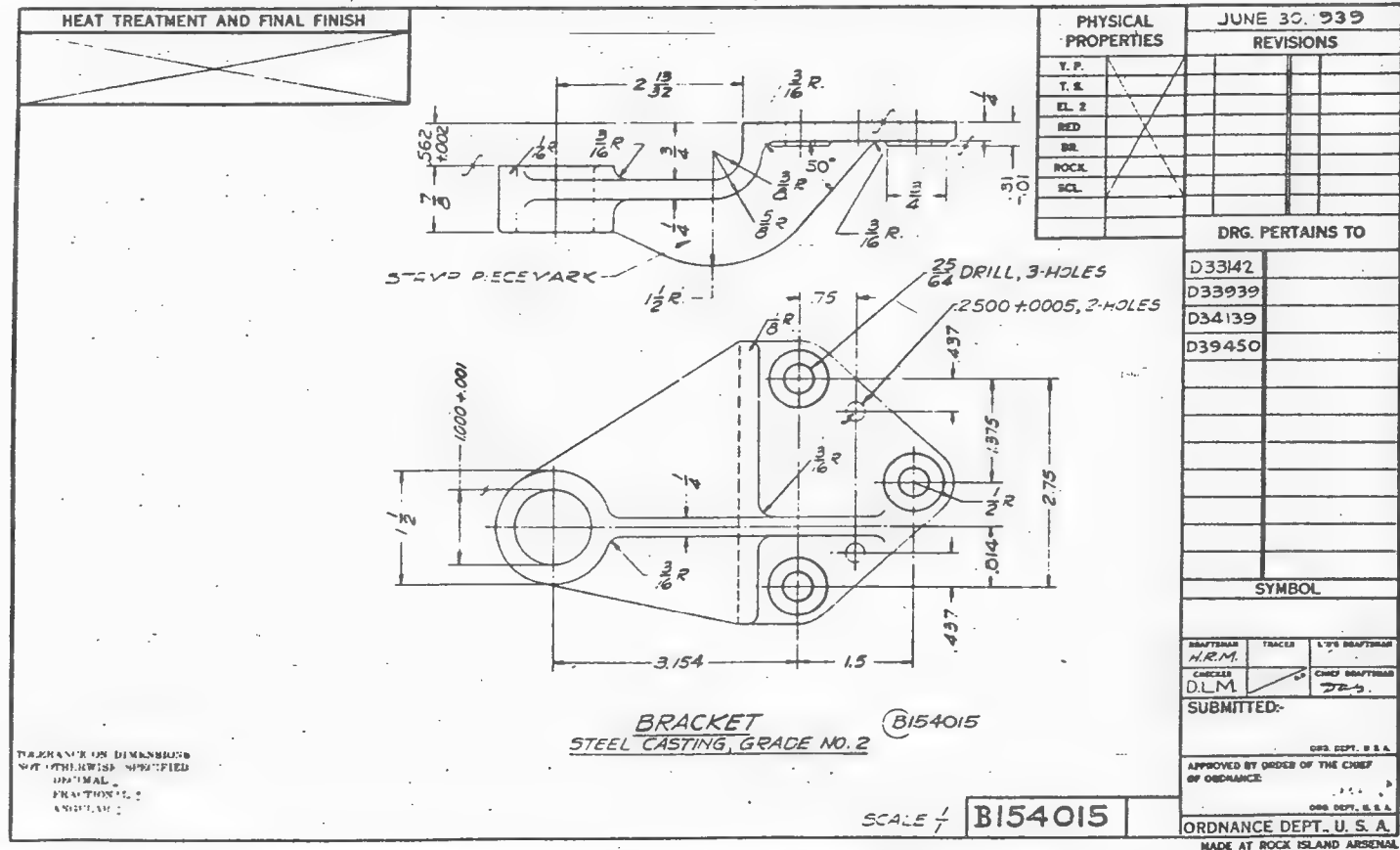
* FINDING DIAGRAM

JUNE 30 1939		CLASS	Div-1000	Drawings	1
REVISIONS					
1	11-3-39				
2	4-8-42				
		SYMBOL			
DRG. PERTAINS TO		ARM	1000	1000	1000
1-105-1		Y.L.M.	1000	1000	1000
		SUBMITTED			
		EXAMINED			
		APPROVED AND FORWARDED BY THE CHIEF OF BUREAU			
		MADE AT ROCK ISLAND ARSE			

D34139

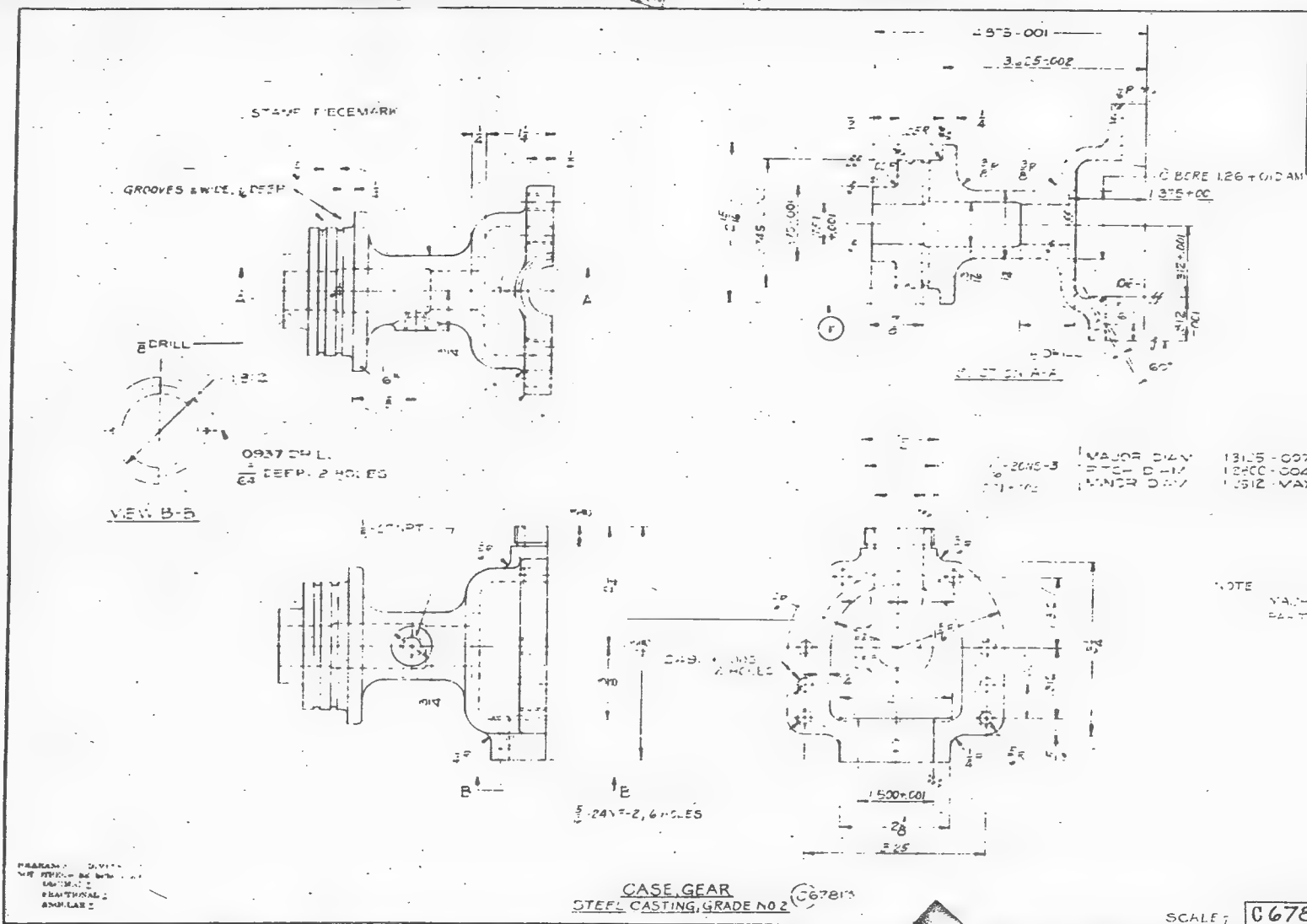
ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSE

MICROFILM - A 44 - 436



MICROFILM - A44 -

150



PHYSICAL PROPERTIES		JOINT REVISIONS	
TEMP		1	7-1-43
T.S.			
EL. 2			
RED			
BR			
ROCK			
SCL			
		DRG PERTAINS TO	
		D39450	

PREPARED BY: D.V. 11
 CHECKED BY: D.V. 11
 DRAWN BY: D.V. 11
 APPROVED BY: D.V. 11
 DATE: 7-1-43

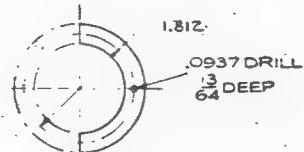
CASE GEAR
 STEEL CASTING, GRADE NO. 2
 C67813

SCALE: C67813

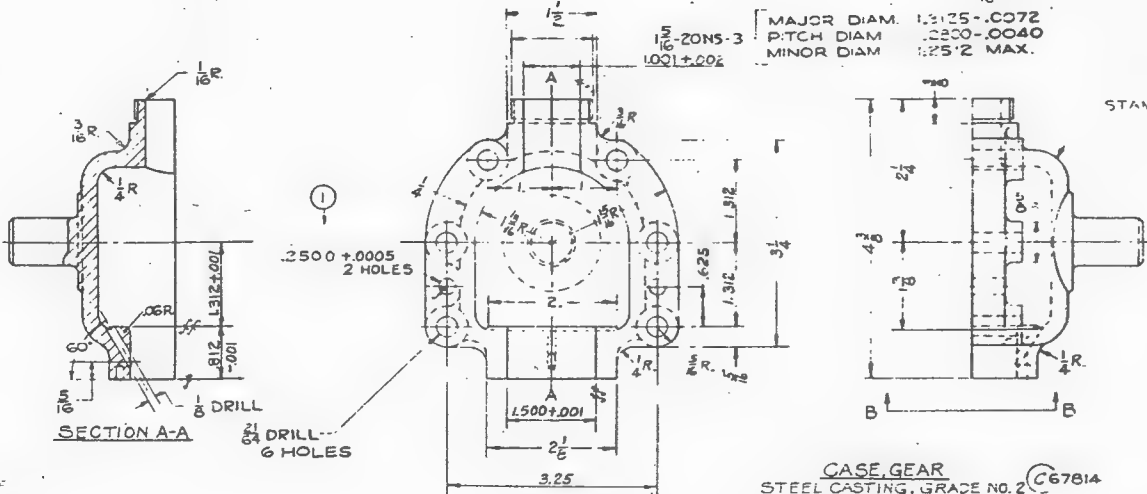
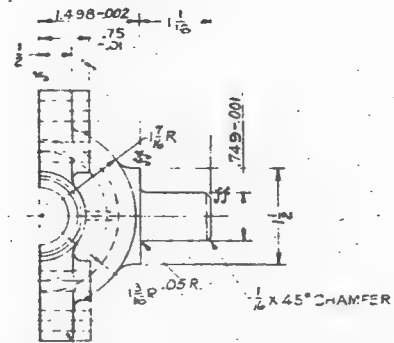
SYMBOL	
DRY	DRY
WET	WET
SUBMITTED:	
APPROVED BY ORDER OF THE CHIEF OF ORDNANCE	
ORDNANCE DEPT., U. S.	
MADE AT ROCK ISLAND ARSENAL	

MICROFILM - A 44 - 1 5 1

PHYSICAL PROPERTIES		JUNE 30, 1942	
		REVISIONS	
Y P		1	A-1-A-42
Y S			
EL 2			
RED			
BR			
ROCK			
SCL			
		DRG. PERTAINS	
		C24.39	
		039450	



VIEW B-B



CASE GEAR
STEEL CASTING, GRADE NO. 2 C67814

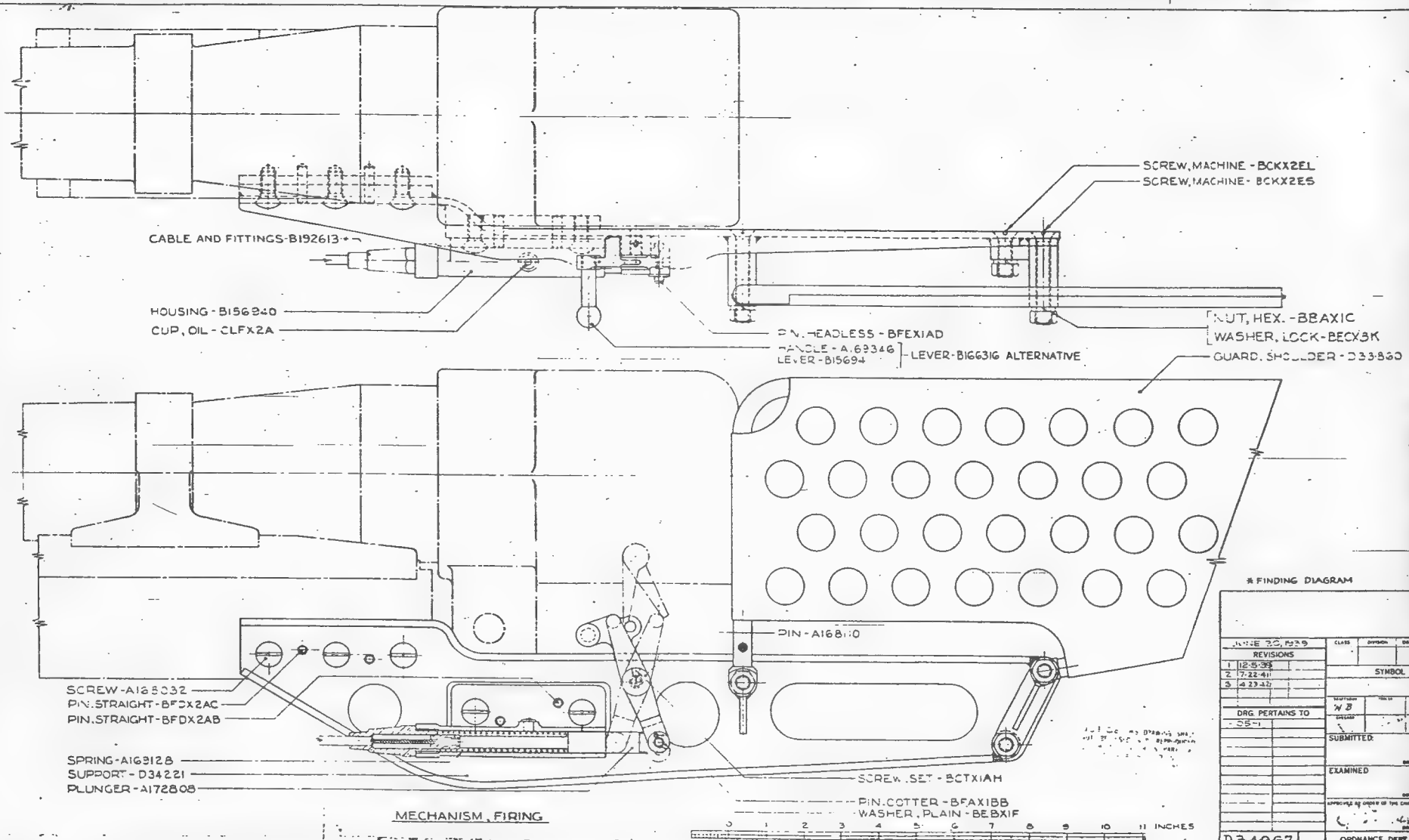
NOTE:-
MACHINE WITH MATING
PART C67813

ALL DIMENSIONS
UNLESS OTHERWISE SPECIFIED
DECIMALS .0005
FRACTIONS 1/32
ANGLES 1°

SCALE 1/16" = 1" C67814

SYMBOL	
APPROVED	FILED
CHECKED	CHECKED
SUBMITTED	
APPROVED BY CHIEF OF THE	
ORDNANCE DEPT.	
MADE AT ROCK ISLAND A	

MICROFILM - A44 - 155



* FINDING DIAGRAM

DATE	REV.	CLASS	SECTION	DESIGN
REVISIONS				
1	12-5-38			
2	7-22-41			
3	4-23-42			
SYMBOL				
DRG. PERTAINS TO				
SUBMITTED				
EXAMINED				
APPROVED BY OFFICE OF THE CHIEF OF				
D34067				
ORDNANCE DEPT. U.S.				
MADE AT ROCK ISLAND				

MICROFILM - A44 - 157

HEAT TREATMENT AND FINAL FINISH

$\frac{5}{8}$ SPHERICAL DIAMETER

SECTION A-A

STAMP PIECEMARK

25+01

LEVER

ALUMINUM BRONZE CASTING, GRADE B
ALTERNATIVE DESIGN, MAY BE USED IN LIEU
OF A169346 AND B156941

ALL FILLETS AND RADII TO BE $\frac{1}{16}$
UNLESS OTHERWISE SPECIFIED.
BREAK ALL SHARP CORNERS

-100-02-

3

PHYSICAL
PROPERTIES

T S 80,000
EL 67-127
RFD
BR 160
HOCK
SCI

JANUARY 18, 1940

REVISIONS

1 1-30-40
2 2-9-40
3 4-12-40

DRG PERTAINS TO

D34-067

374-001

375+001

187

250+.005

125+.002

$\frac{5}{16}$

$\frac{5}{8}$

SCALE $\frac{1}{4}$

B166316

EJM

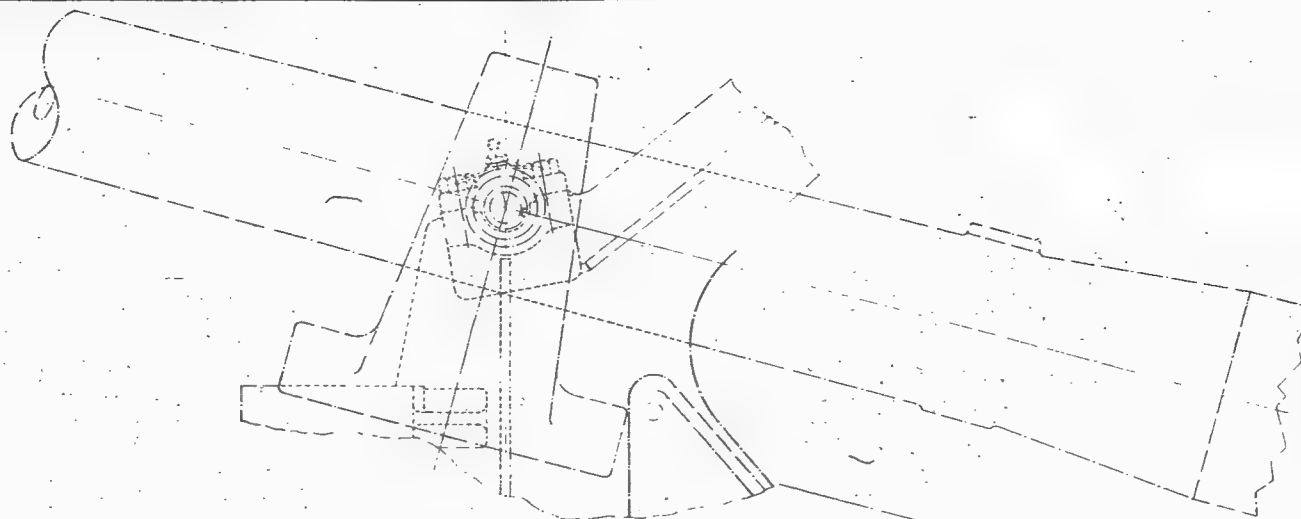
SUBMITTED

ORDNANCE DEPT U S A

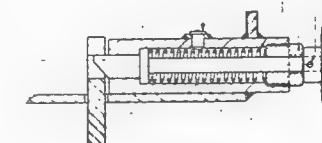
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 -

A E A



KNOB-A168749
 PIN, STRAIGHT-BFDXICM
 GUIDE-A168748
 SPRING, HELICAL-A168747
 CUP, OIL-CLFX2A
 PLUNGER-A168732



SECTION A-A

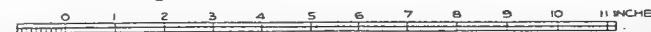
* FINDING DIAGRAM

PIN-A164029
 NUT-A164058
 PIN, COTTER-BFAXICR
 BUSHING-A164762

LOOP-A168534

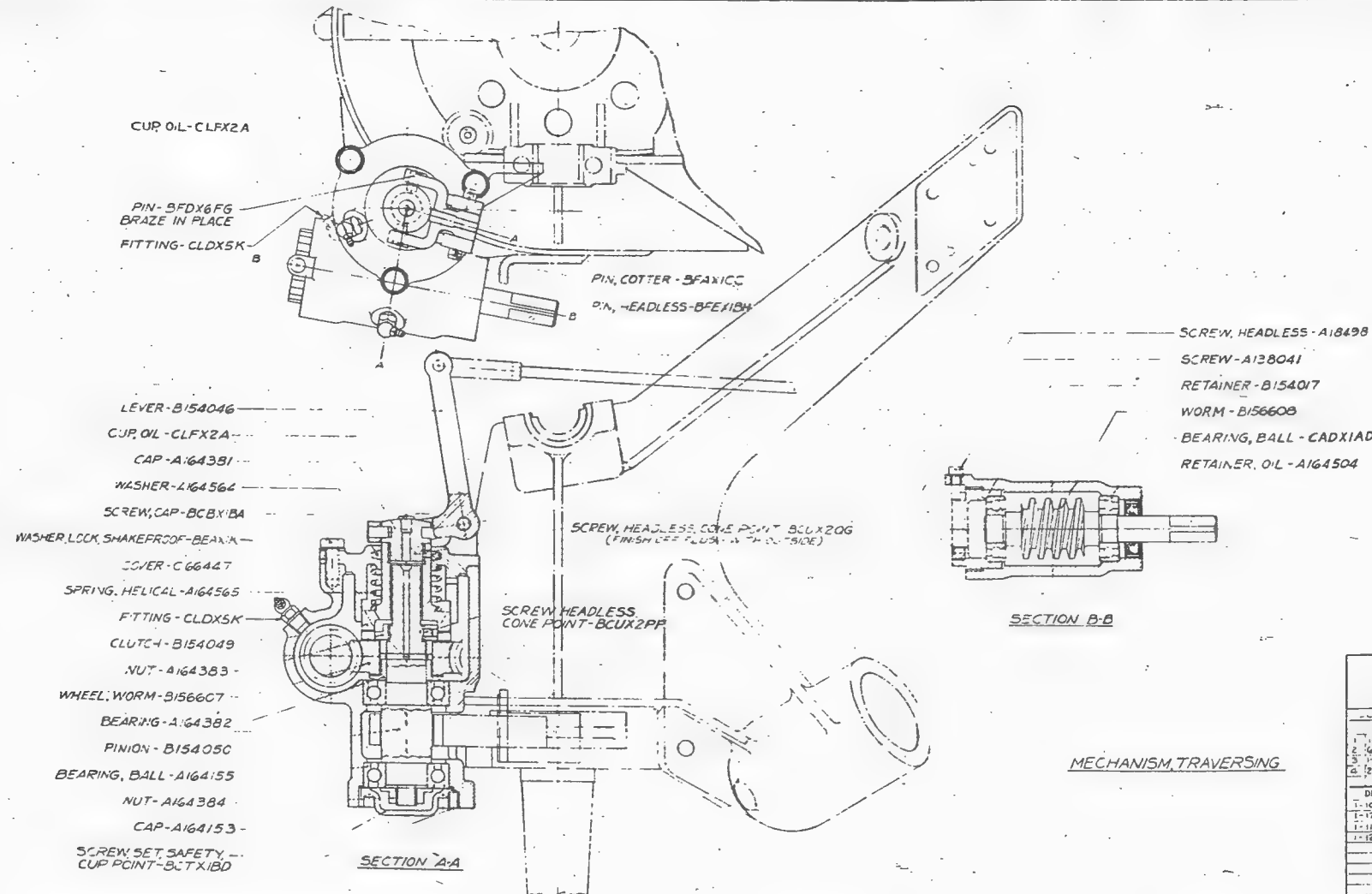
NUT, JAM-BBDXID
 CONNECTION-A168539
 PIN-A168642
 PIN, COTTER-BFAXICD
 PIN, HEADLESS-BFEXICF
 LEVER-A168957*
 LOCK, TRAVELING-C67806

MECHANISM, LOCK, TRAVELING



JUNE 30, 1939		SYMBOL	
REVISALNS 10-19-42		60-2-22	
DNG. BELTAINS TO 1-105-1 1-120-1		SUBMITTED	
		EXAMINED	
D33980		CHIEF ENGINEER U.S.A. MADE AT WOLFE LAKE ARIZ.	

MICROFILM - A44 - 167



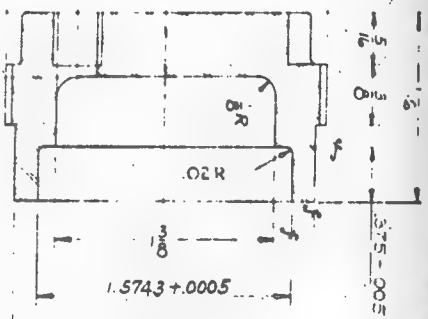
SUPERSEDES OLD TRACING D34188, UNDER REVISION DATE OF 1-1-43

1 2 3 4 5 6 7 8 9 10 INCHES

REV. 30, 1939		CLASS	ISSUED	CHANGED
REVISIONS		SYMBOL		
1	24 42			
2	27 42			
3	1-43			
4	26 43			
DRG PERTAINS TO		VTN		
T-1C 5-1				
T-17-1				
T-119-1				
T-121-1				
SUBMITTED				
EXAMINED				
APPROVED BY SUPER TO THE CHIEF OF BUREAU				
D34188		ORDNANCE DEPT. U.S.A. MADE AT ROCK ISLAND ARSE		

MODEL 44

170



MARKET

RETA 100
WDA1315
COLD FINISHED

B154017

ORDNANCE DEPT., U.S.A.
MADE AT ROCK ISLAND

APPROVED BY ORDER OF THE
OF ORDNANCE

DRAFTSMAN	FRAMES	L.O.S.
<i>M.C.A.</i>		C.M.F.
CALCULATED		

SUBMITTED:

DRG. PERTAINS

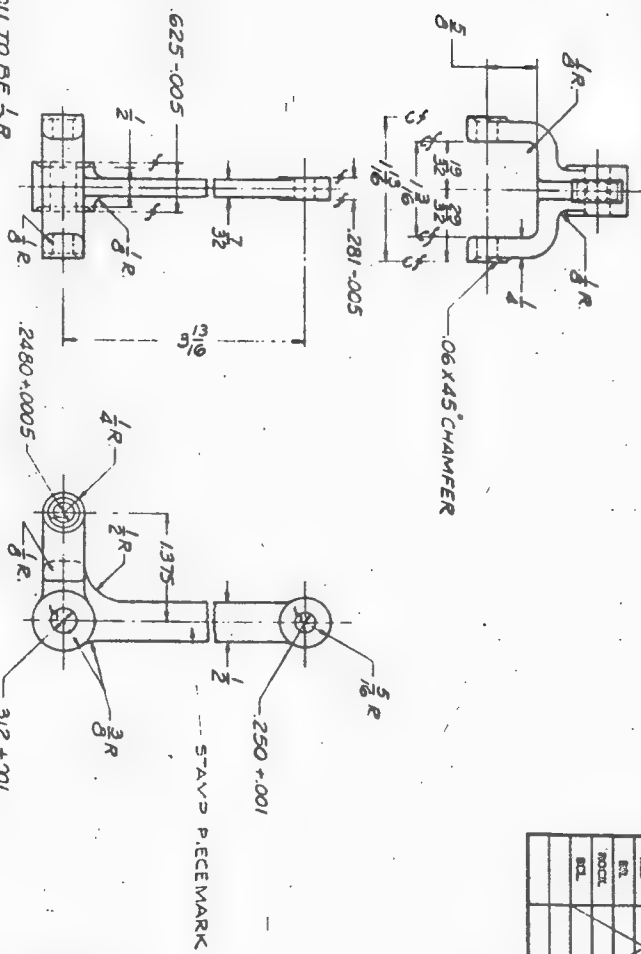
0331A9

D34185

D41294

HEAT TREATMENT AND FINAL FINISH

MICROFILM - A44-



NOTE: ALL RADII TO BE $\frac{1}{8}$ " R.
UNLESS OTHERWISE SPECIFIED.

LEVER
BRONZE CASTING COI NO.5
OR MALLEABLE IRON CASTING, TYPE A

SCALE 1
B154046

ORDNANCE DEPT.

PHYSICAL PROPERTIES						JUNE 30,	REVISION
V.P.					1	2-7-42	
T.A.							
D.L.S							
BZD							
EI.							
MOLT							
SOL.							
DRG. PERTAIN							

DRG. PERTAIN	
D33149	
D34188	

ISSUING OFFICE	TRACED	1
H.R.M.		
CONCURRED		
DECLINED		

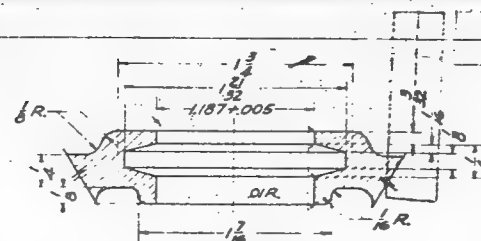
APPROVED BY ORDER OF 1
OF ORIGINATE.

MADE AT PORT

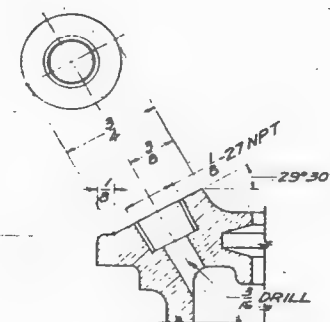
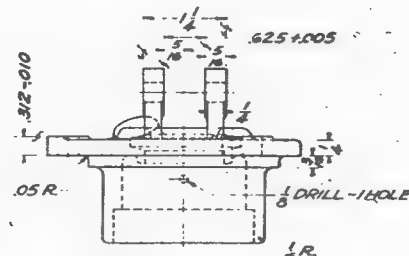


— $\frac{21}{64}$ DRILL-3 HOLES

STAMP PIECEMARK



SECTION B-B
SCALE 2
1



SECTION C-C
SCALE 2'-1"

COVER
BRONZE CASTING COMPOSITION #5 (C66447

TOLERANCE ON DIMENSIONS
NOT OTHERWISE SPECIFIED
DECIMAL :
FRACTIONAL :
ANGULAR :

[illegible]

SYMBOL		
BRANCHES W. J. B. CHECKED D. L. M.	TRACER	L. P. B.
SUBMITTED:-		CHEF BY D. L. M.
<div style="text-align: right;">GROUP SUPERVISOR</div> APPROVED BY ORDER OF THE CHIEF OF BUREAU [Signature] [Signature]		
ORDNANCE DEPT. U. S. ARMY		

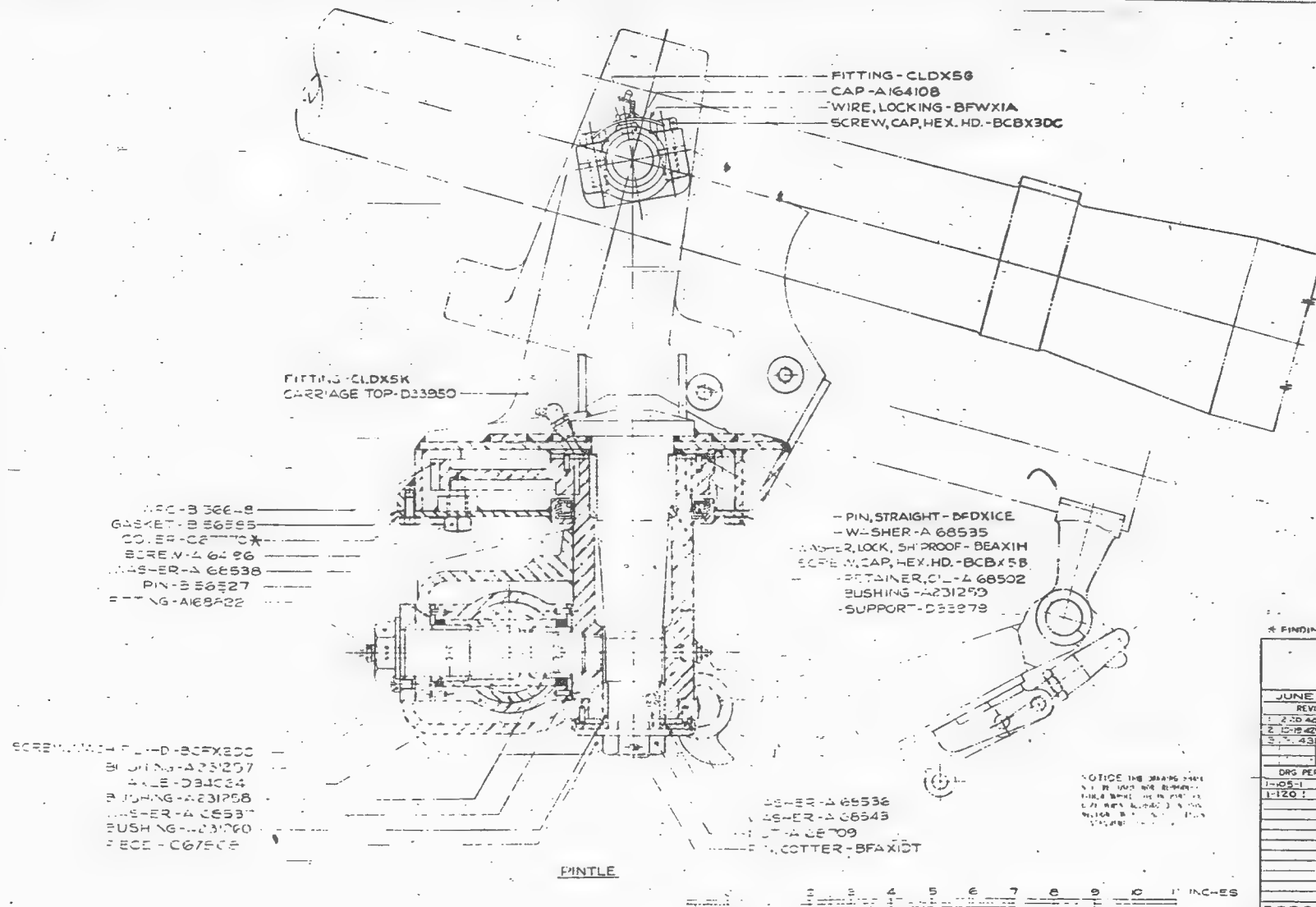
DE AT ROCK ISLAND ARS

SCALE $\frac{1}{4}$

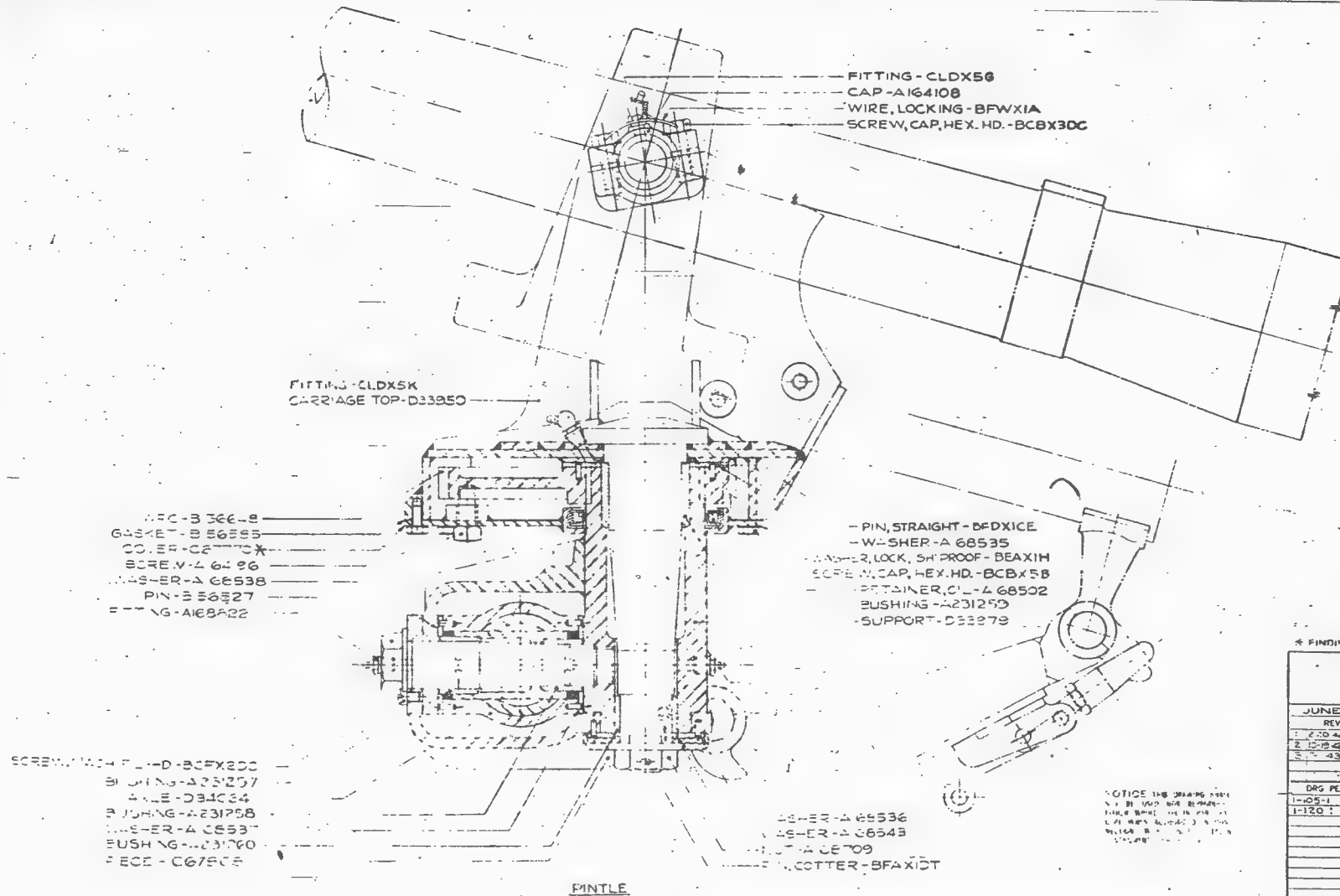
C66447

ORDNANCE DEPT. U. S.
MADE AT ROCK ISLAND ARSE

MICROFILM - A44 - 107



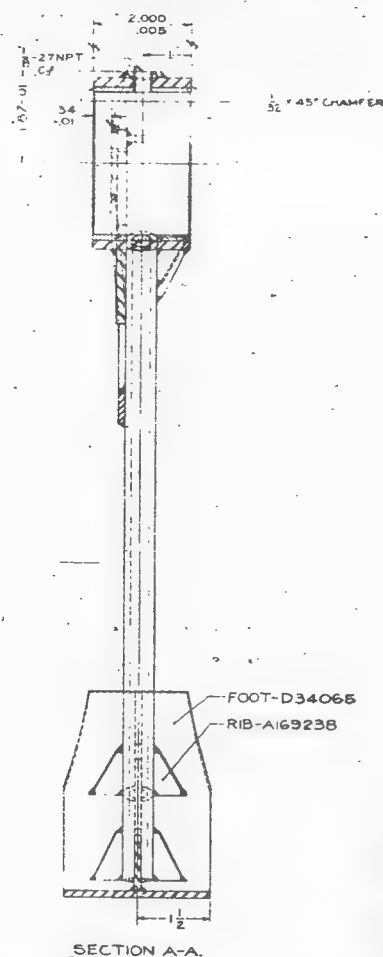
MICROFILM - A44 - 504

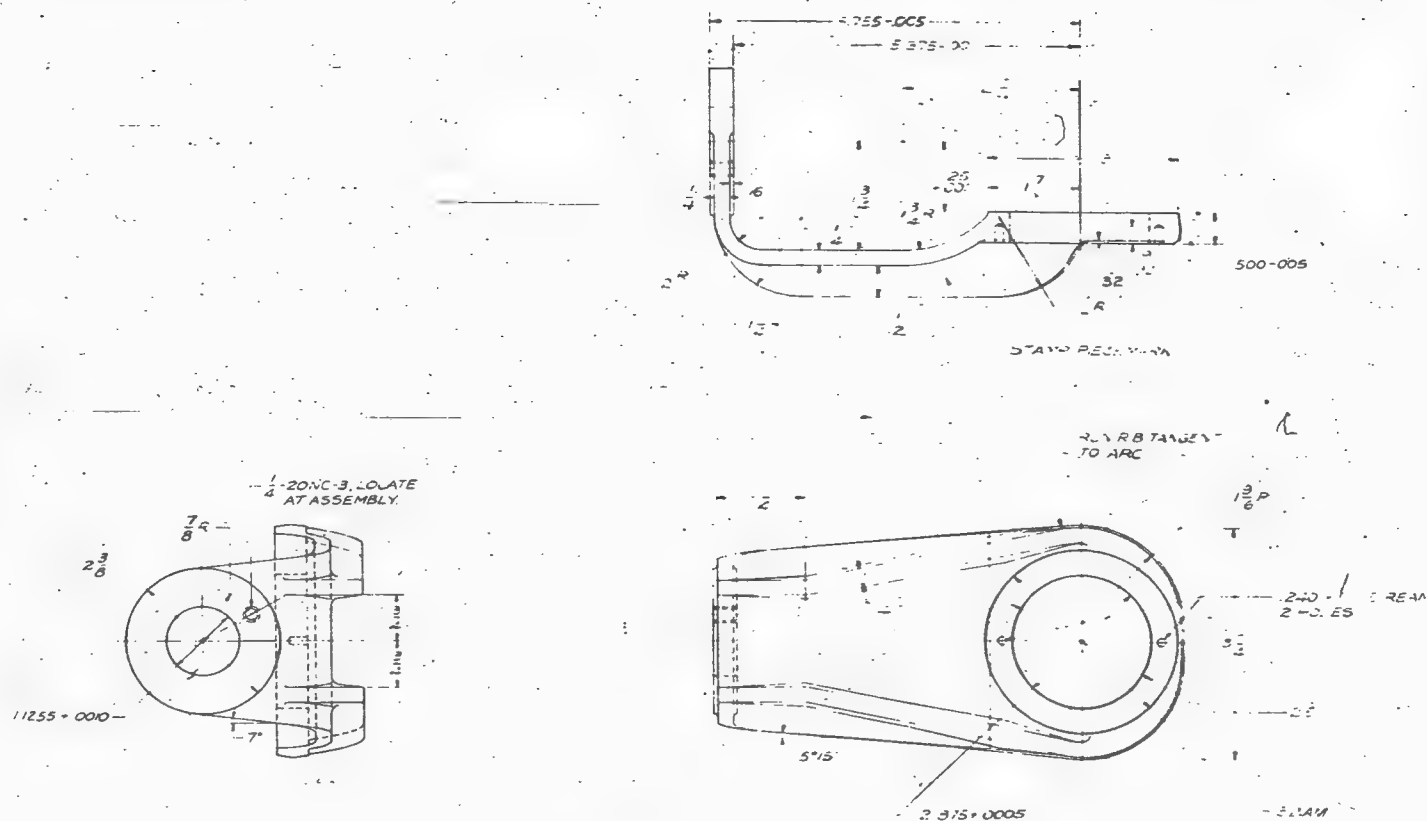


* FINDING DIAGRAM

JUNE 30 1939		CLASS	DIVISION	DESIGN
REVISIONS				
1	2 TO 46			
2	1218 46			
3	431			
DRG PERTAINS TO		SYMBOL		
1-105-1		47 5		
1-120 1		SUBMITTED		
		EXAMINED		
		APPROVED BY OFFICE OF THE		
D33954		ORDNANCE DE		
		MADE AT ROCK IS		

MICROFILM - A44 - 504

[illegible]


[illegible]

TOLERANCE ON DIMENSIONS
NOT OTHERWISE SPECIFIED
DECIMAL :
FRACTIONAL :
ANGULAR :

PIECE
STEEL W/OUT C67908
NORMALIZED

NOTE
ALL DRAFT TO BE 7°
ALL RADII UNLESS OTHERWISE
SPECIFIED TO BE $\frac{1}{8}$

SCALE: C67808

SYMBOL		
DRIFTMAN - - -	10000	1 D G DRIFTMAN
ENCLD - - -		LONG DRIFTMAN <i>Day</i>
SUBMITTED:		
<div style="text-align: right;">GND DEPT 0 0</div> <div style="text-align: center;">APPROVED BY ORDER OF THE CHIEF OF ORDNANCE</div> <div style="text-align: right;">GND DEPT 0 0</div>		
ORDNANCE DEPT. U. S.		

DE AT ROCK ISLAND ARSEN

MICROFILM - A 44 - 521

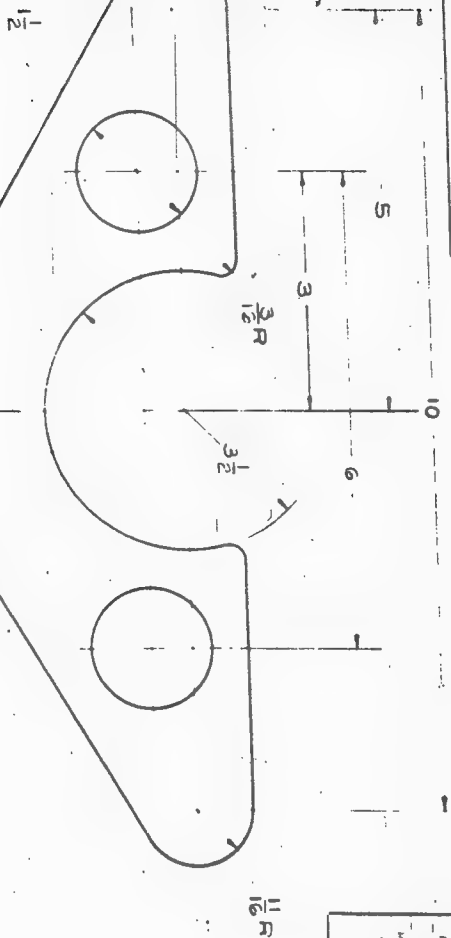
HEAT TREATMENT AND FINAL FINISH

PHYSICAL
PROPERTIES

JUNE 30,
REVISIO
4-12-40

DRG PERTA

D34077



PIECE
LOW ALLOY STEEL, GRADE 2
3/16 THICK, NORMALIZED

SCALE 1/4" = 1" B156992

ORDNANCE DE
MADE AT ROCK IS

MICROFILM - A44 - 53

HEAT TREATMENT AND FINAL FINISH

PHYSICAL
PROPERTIES

JUN

Y P	1	2-18
1 S	2	4-12
11.2	3	7-28
RED		
BR		
ROCK		
SCL		

DRG

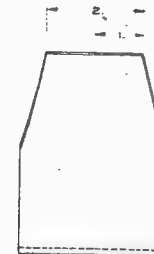
D3407



SPOKE
B156990
TUBING, SEAMLESS STEEL, W.D. 10.20
120 WALL THICKNESS

SCALE 1/4" = 1" B156990

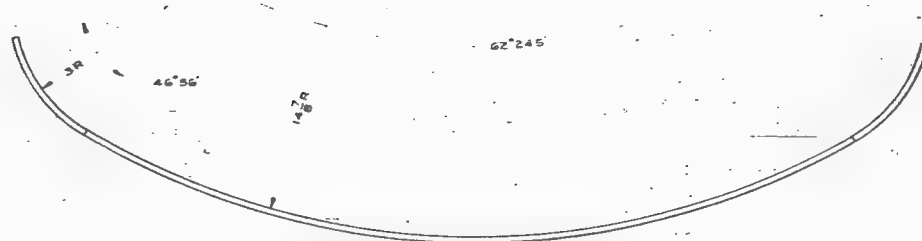
ORDN/



FOOT (534065)
LOW ALLOY STEEL, GRADE 2
1/2" THICK, NORMALIZED

SCALE

MICROFILM - A 44 - 536



DEVELOPED LENGTH

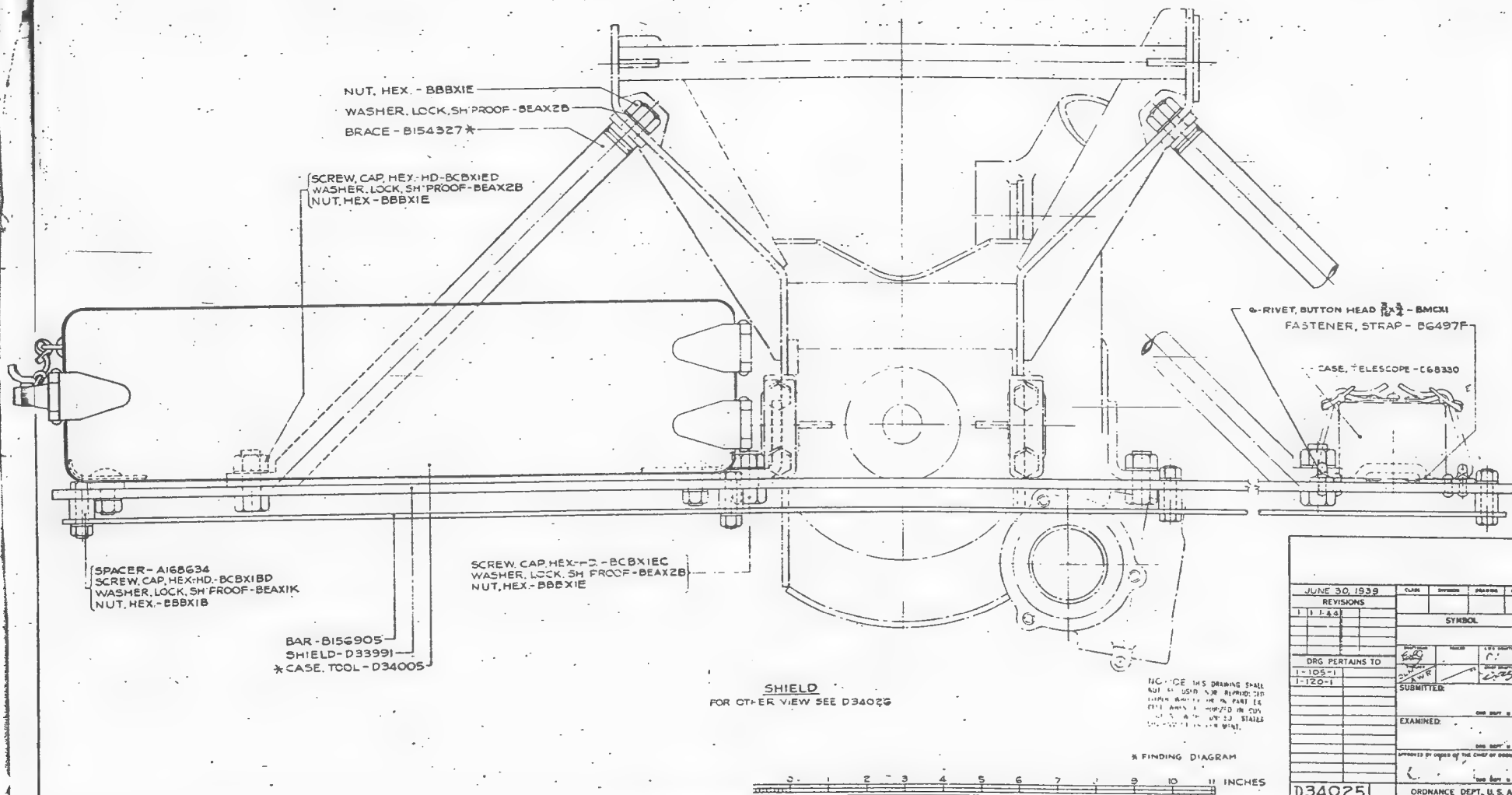
FOOT ②4065
LOW ALLOY STEEL GRADE 2
1/8" THICK, NORMALIZED

①



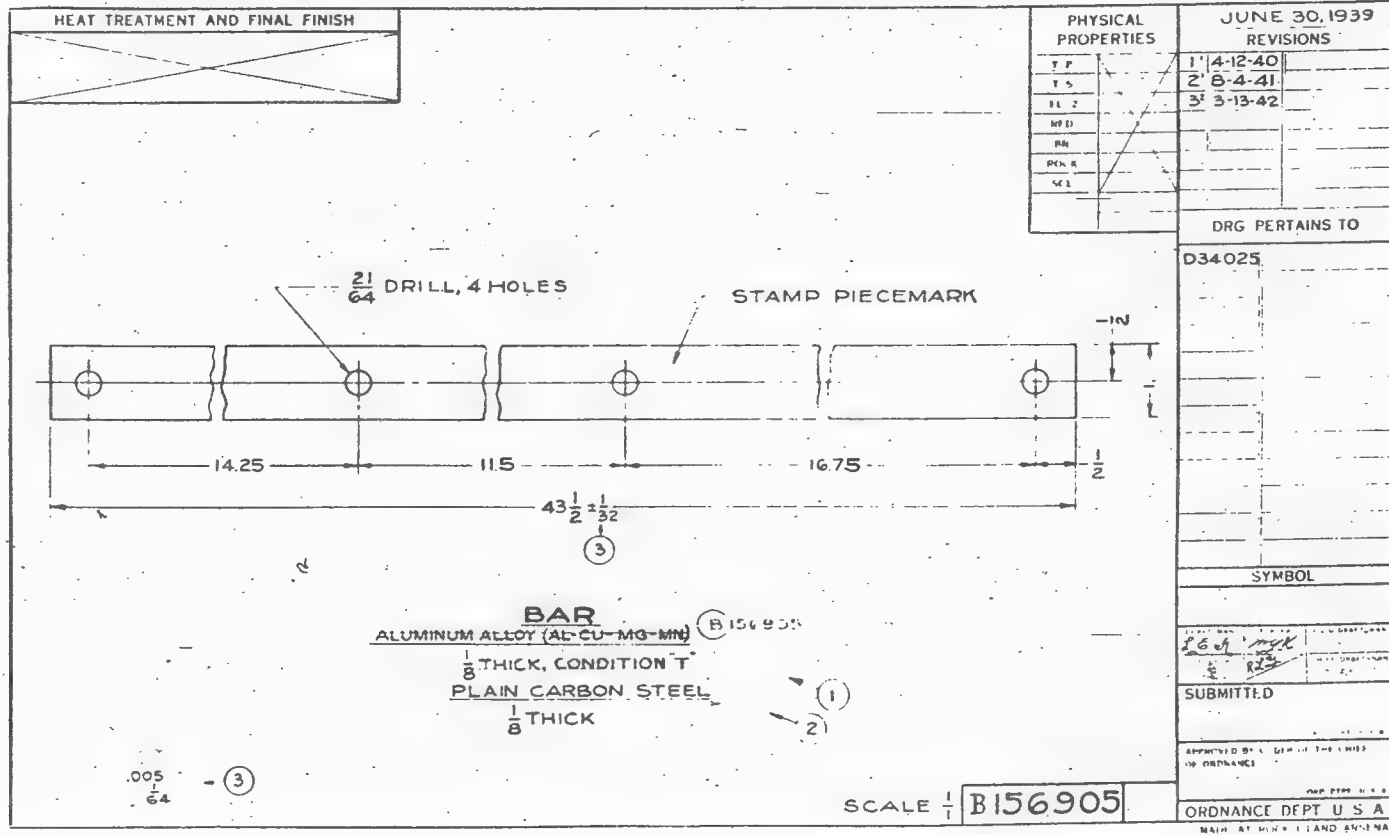
JUNE 30 1939	
REV. NO.	SYMBOL
1 4 12 40	
DRG. PERTAINS TO D34077	SUBMITTED
	EXAMINED
SCALE 1	D34065
ORDNANCE DEPT U S A MADE AT ROCK ISLAND ARSENAL	

MICROFILM - A44 - 536

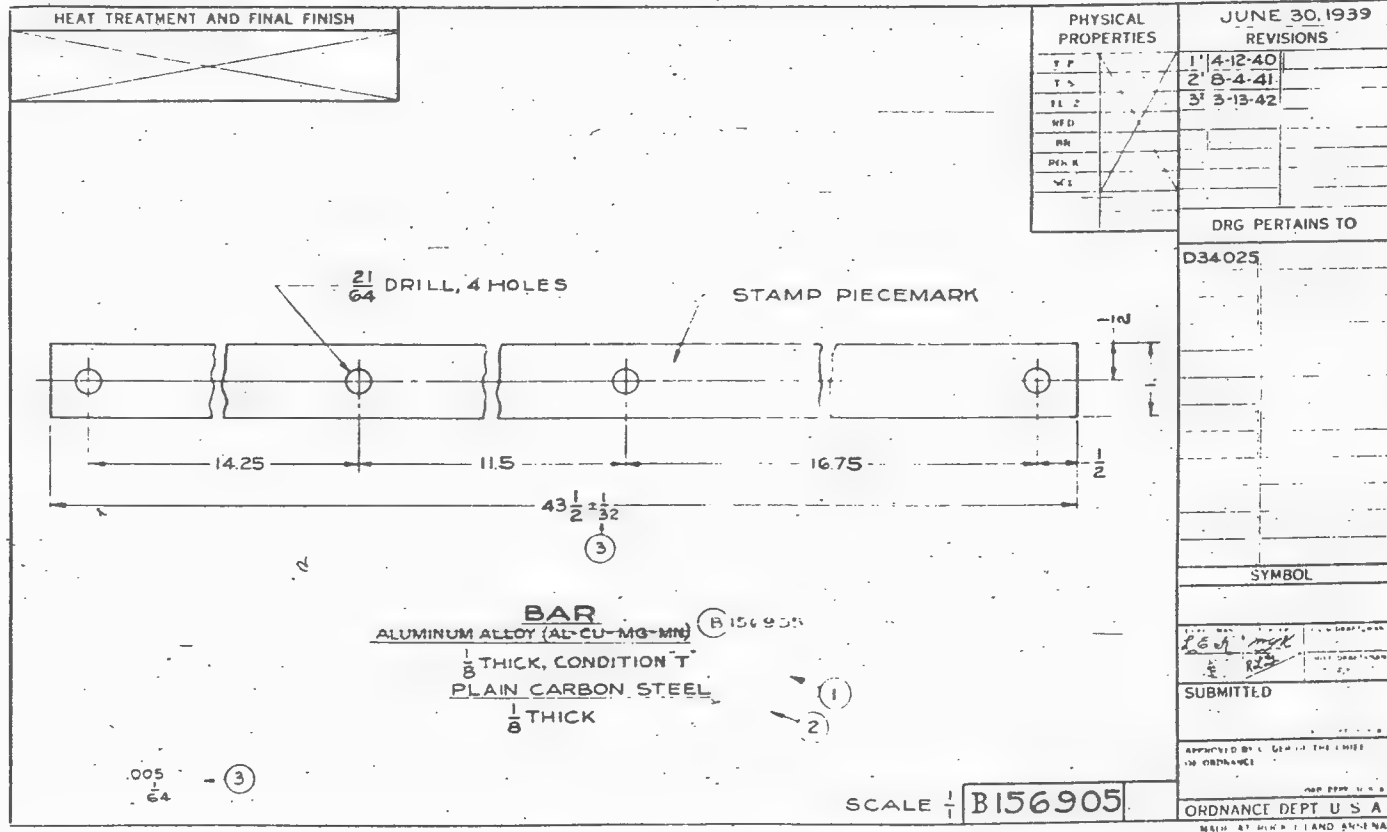


JUNE 30, 1939		CLASS	SYMBOL	DESIGNER	FILE
REVISIONS					
1	1	1	1	1	1
SYMBOL					
DRG. PERTAINS TO					
1-105-1					
1-120-1					
SUBMITTED					
EXAMINED					
APPROVED BY CHIEF OF BUREAU					
D34025					
ORDNANCE DEPT. U.S.A.					
MADE AT ROCK ISLAND ARSENAL					

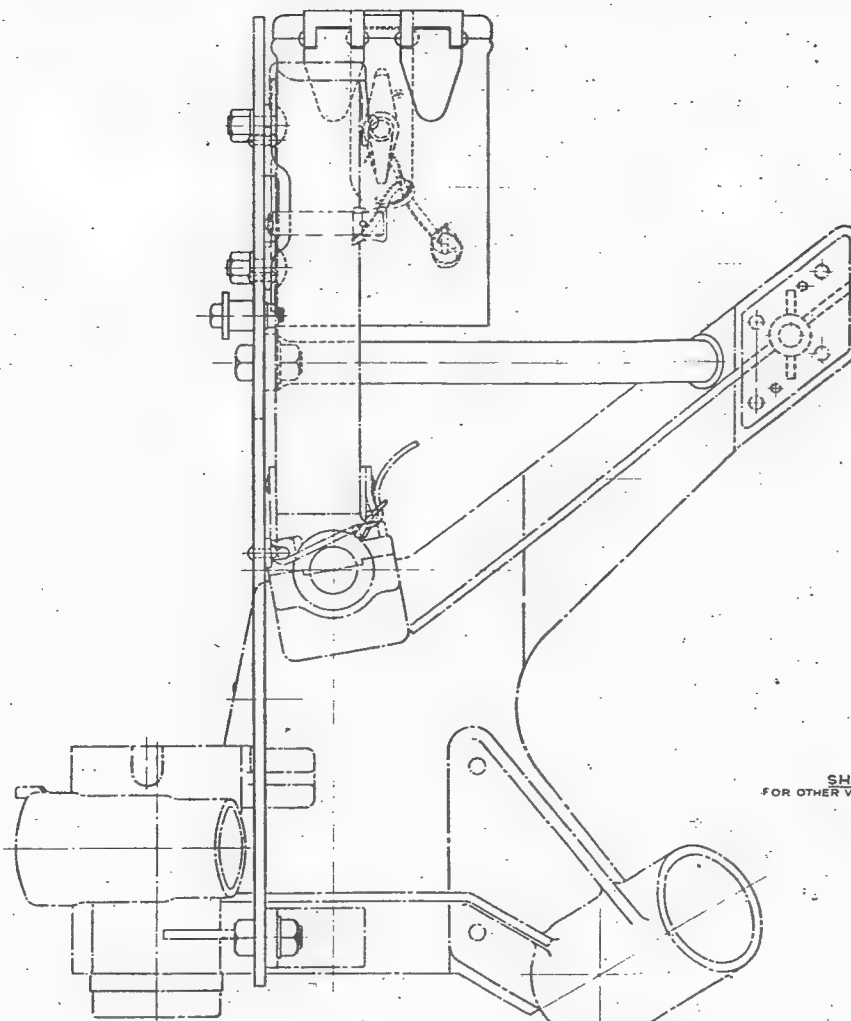
MICROFILM - A44 - 538



MICROFILM - A44 - 5 1 1



MICROFILM - A 44 - 5 1 1

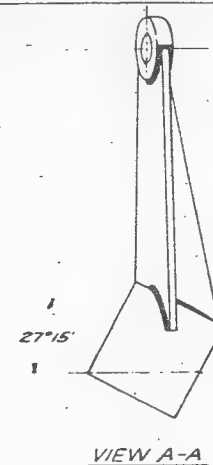


SHIELD
FOR OTHER VIEW SEE D34025

0 2 3 4 5 6 7 8 9 10 11 INCHES

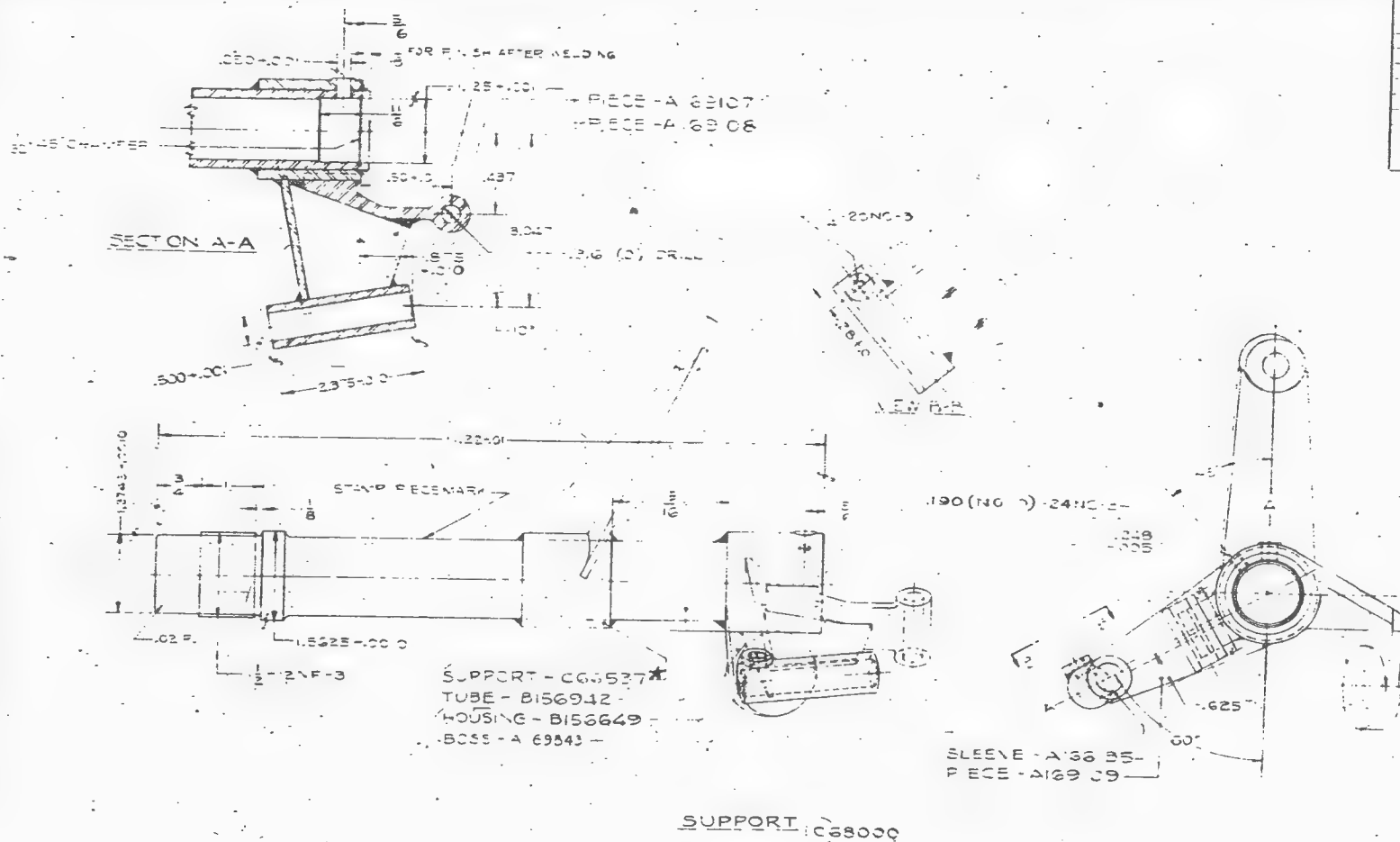
JUNE 30, 1939		CLASS	DIVISION	DATE	FILE
REVISIONS					
SYMBOL					
DRG PERTAINS TO D34025		DESIGNED BY [Signature]	CHECKED BY [Signature]	DATE [Date]	
SUBMITTED:		DATE [Date]			
EXAMINED		DATE [Date]			
APPROVED BY ORDER OF THE CHIEF OF ORDNANCE		DATE [Date]			
D34026		ORDNANCE DEPT. U. S. A. MADE AT ROCK ISLAND ARSENAL			

MICROFILM - A44 - 543

[illegible]

SYMBOL		
DRAFTSMAN <i>W.T.N.</i>	TRACED	I.D.C. DRAFTSMAN
CHECKED <i>D.L.M.</i>	<i>/</i>	CHIEF DRAFTSMAN <i>Dej</i>
SUBMITTED:		
ORD DEPT U.S.A.		
APPROVED BY ORDER OF THE CHIEF OF ORDNANCE <i>C. J. [Signature]</i> ORD DEPT U.S.A.		
ORDNANCE DEPT. U.S.A.		

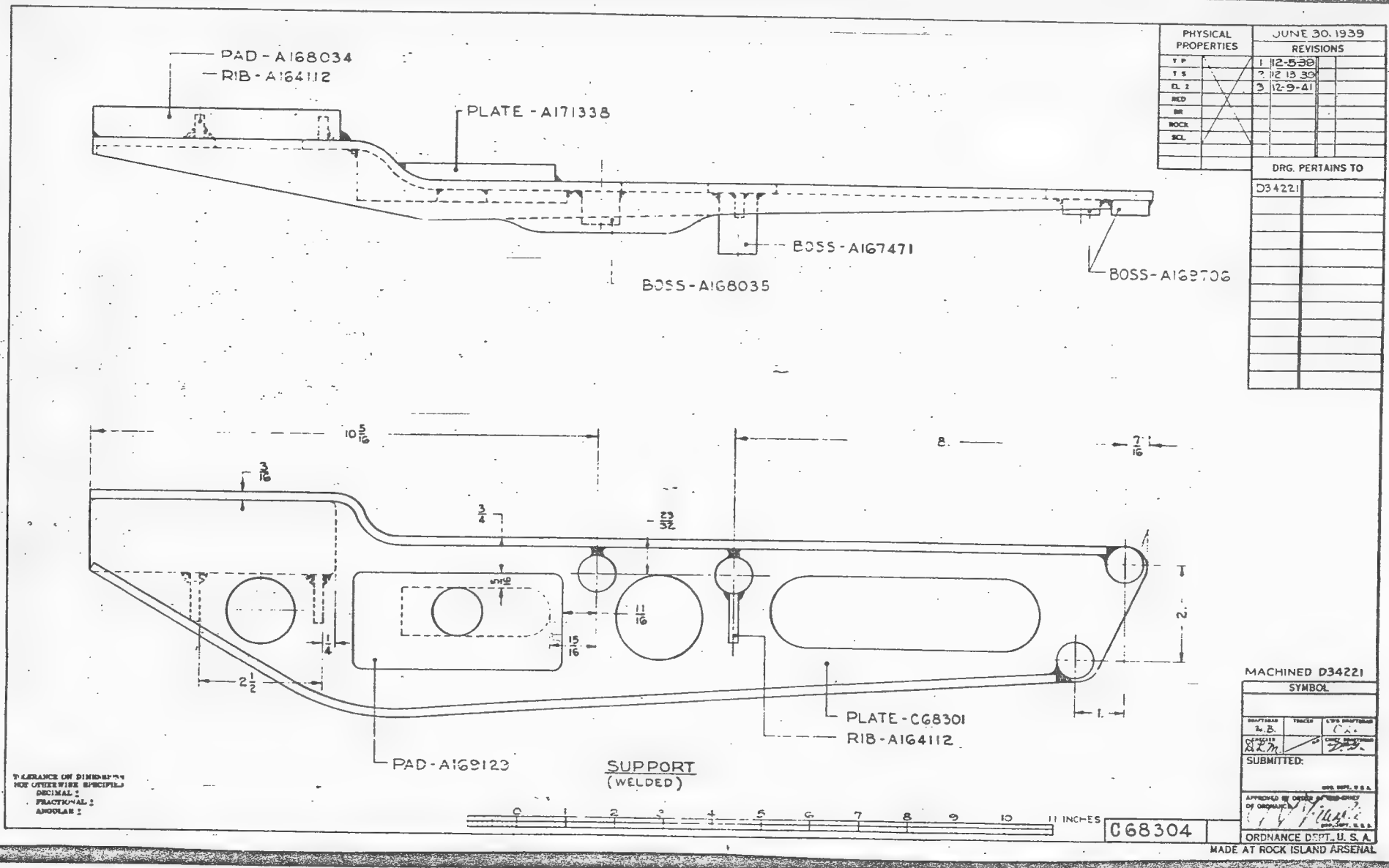
MICROFILM - A44 - 552



PHYSICAL PROPERTIES	REVISIONS
TEMP	
EL 2	
RED	
BR	
ROCK	
SCL	
DRG PERTAINS TO	
034054	

SYMBOL
1/16" = 1"
SUBMITTED
APPROVED BY: [Signature]
ORDNANCE DEPT U S A

MICROFILM - A44 - 560



MICROFILM - A44 - 587

JUL 12 1939	
REVISIONS	
Y P	1 12-4-39
Y S	2 12-13-39
EL 2	3 4-12-40
RED	
DR	
ROCK	
SCL	

DRG PERTAINS TO

C68304	

SECTION A-A

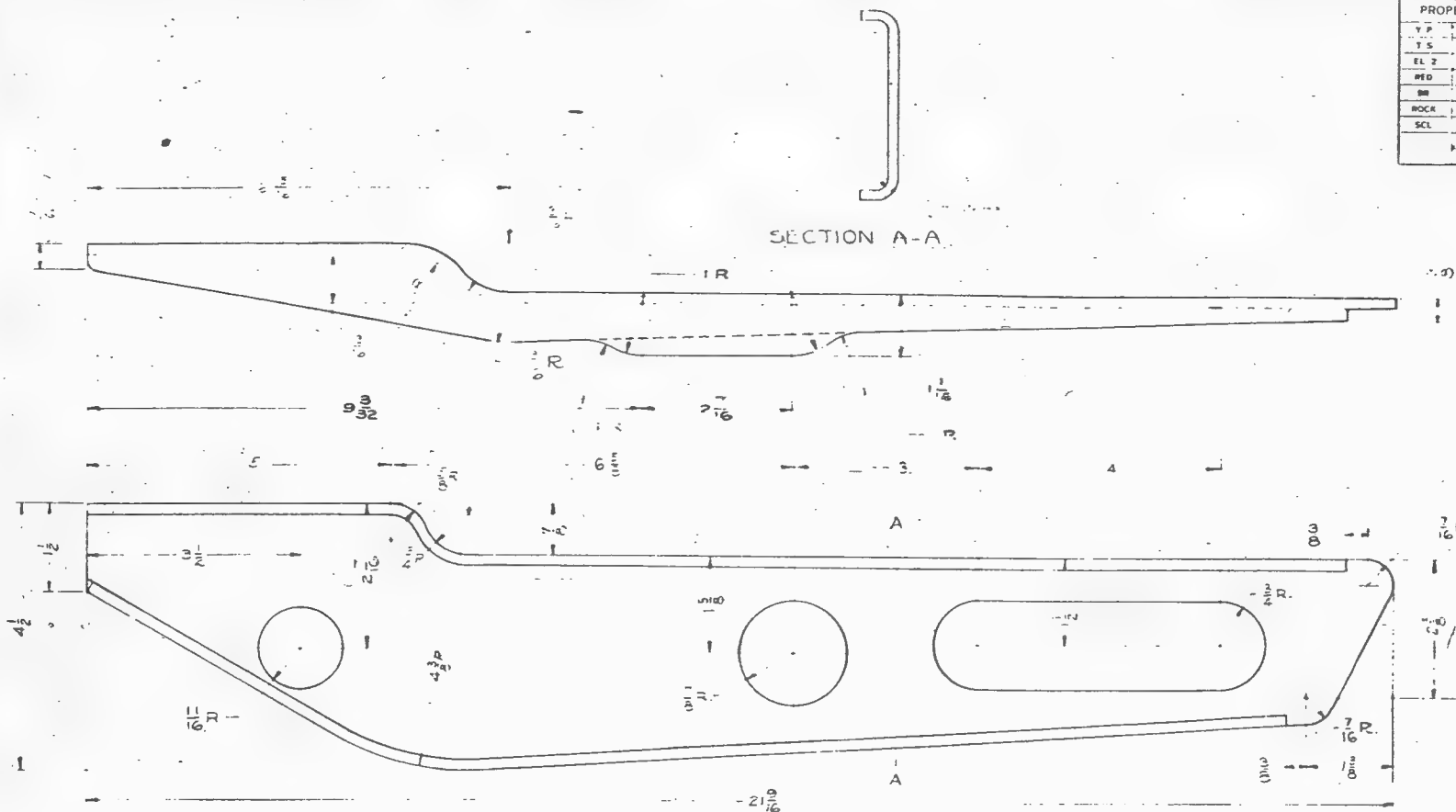


PLATE
LOW ALLOY STEEL GRADE 2
3/16 THICK, NORMALIZED

C68301

(3)

SC4-3- C68301

SYMBOL

SYMBOL FOR THE USE OF THE DRAWING
1.5
EXCLUDED
SUBMITTED

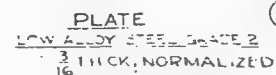
APPROVED BY ORDER OF THE CHIEF
OF ORDNANCE

ORDNANCE DEPT. U. S. A.
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 - 504

DRG PERTAINS

C68364



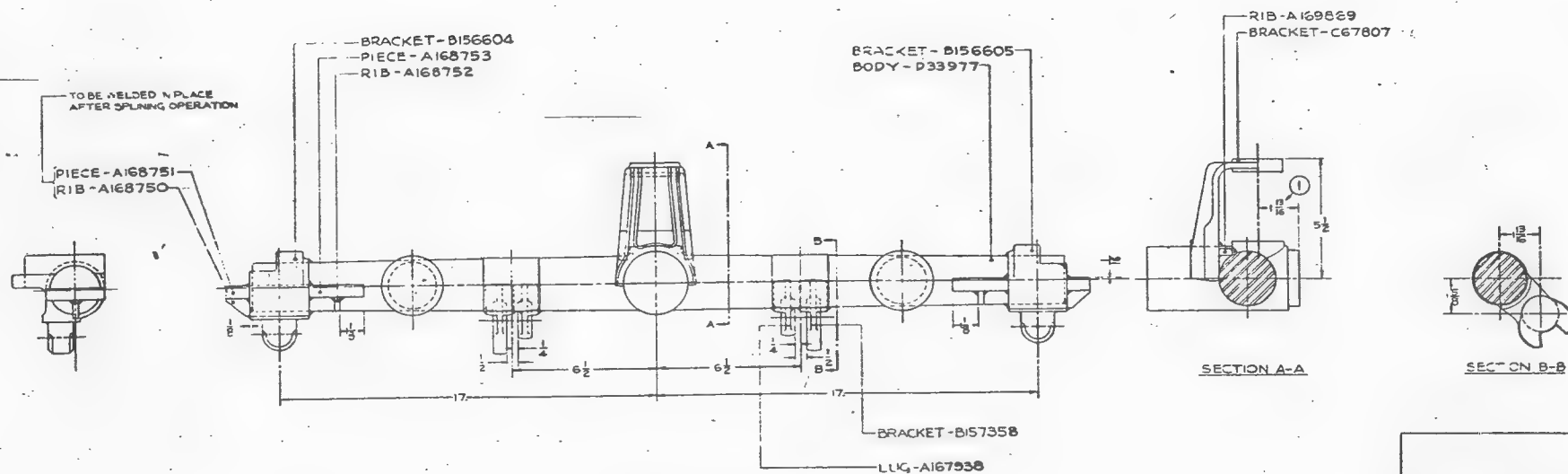
C6830

③

SYMBOL	
<i>[Handwritten marks]</i>	
SUBMITTED	
<i>[Handwritten mark]</i>	
APPROVED BY ORDER OF THE C OF ORDNANCE	
<i>[Handwritten mark]</i>	
ORDNANCE DEPT. U.	

MADE AT ROCK ISLAND AR

MICROFILM - A 44 - 504



SUPPORT WELDED D33967

JUNE 10 1939		CLASS	DIVISION	BRANCH	FILE
REVISIONS					
1	7 1 41				
2	1-1-43				
SYMBOL					
DRG PERTAINS TO					
D33975					
SUBMITTED					
EXAMINED					
APPROVED BY CHIEF OF BRANCH					
ORDNANCE DEPT. U.S.A.					
MADE AT ROCK ISLAND ARSENAL					

0 2 4 6 8 10 12 14 16 18 20 22 INCHES

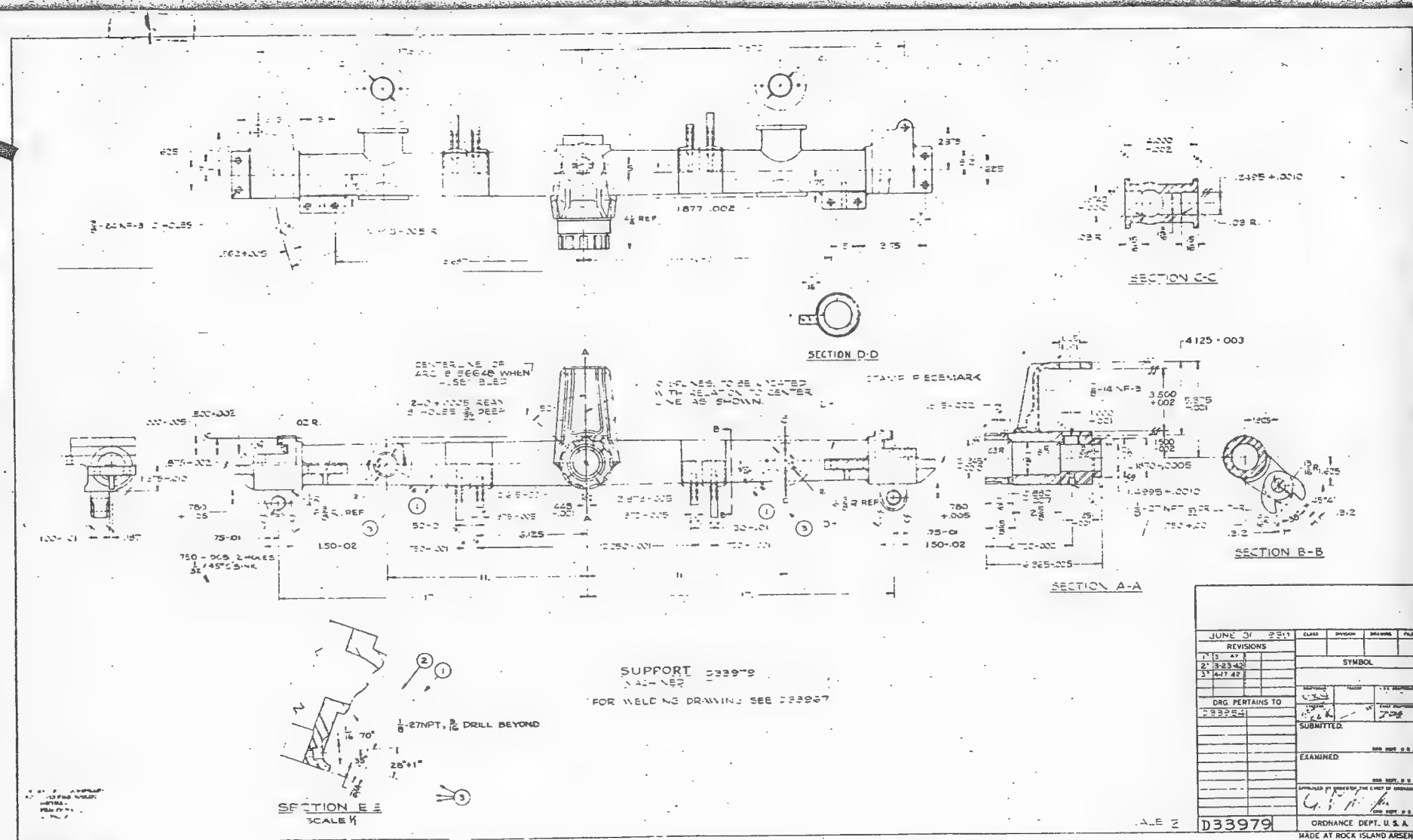
MICROFILM - A44 - 597

Technical drawings of a mechanical assembly, including a side view, a top view, and a cross-section view. The side view shows a long rectangular component with three circular features. The top view shows a similar component with a central circular feature. The cross-section view shows a circular component with a central hole. Various dimensions and part numbers are labeled.

NOTE: - FOR FORGING DRAWING SEE D34483

SCALE $\frac{1}{2}$

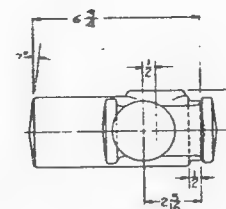
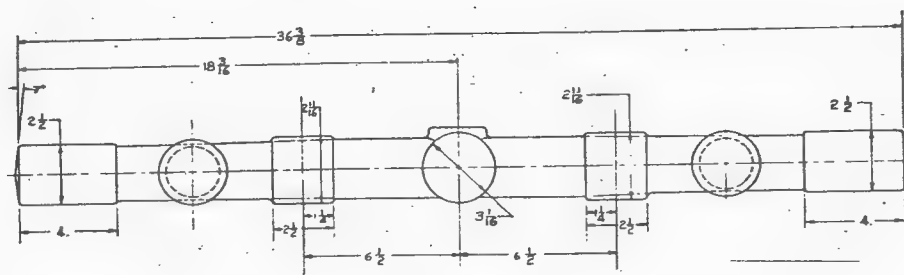
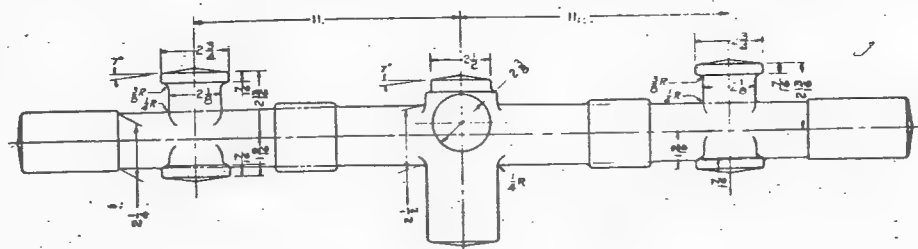
MICROFILM - A 44 - 608



MICROFILM - A44 -

609

① ②



BODY
WD4150

D34483

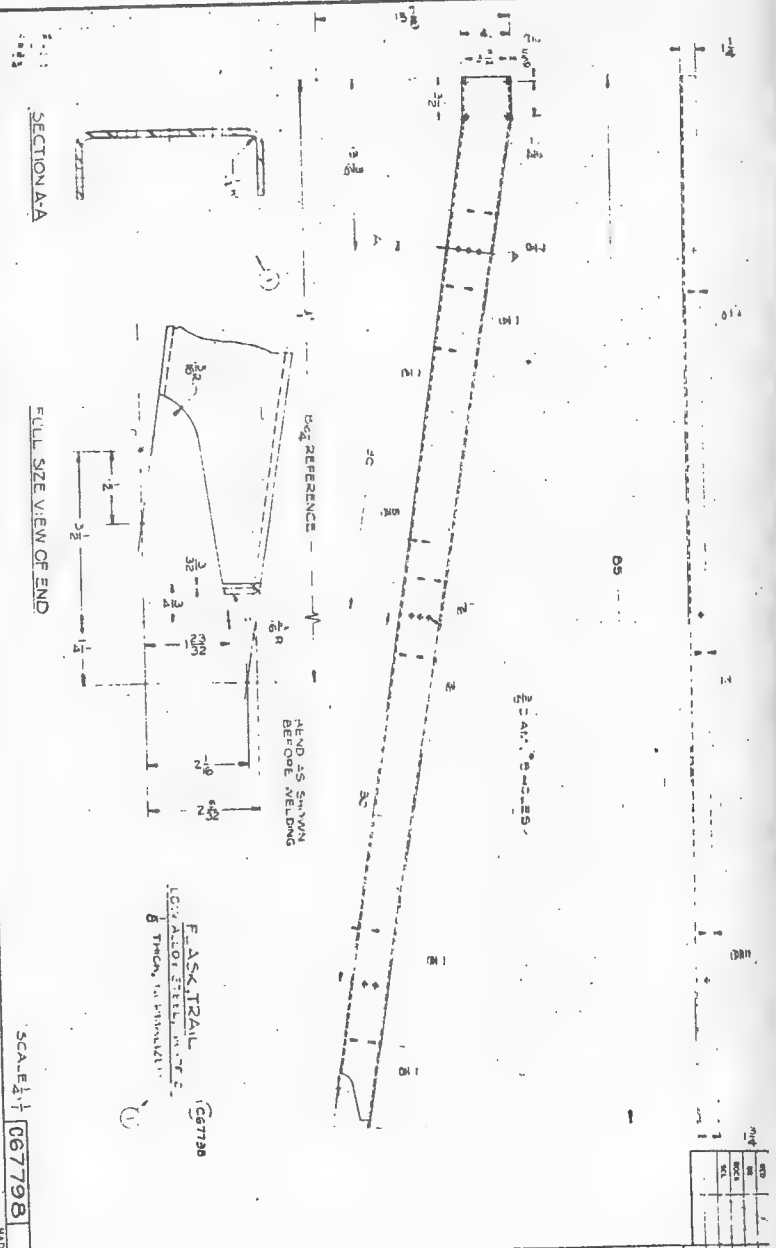
MATERIAL SIZE
HAMMER SIZE

PLANE TABLE 170 0 45' 10"
 NOT OFFERED, NO - 11.5 LBS
 ORIGINAL -
 FRACTIONAL: 1/16
 ANNUAL: 0.15

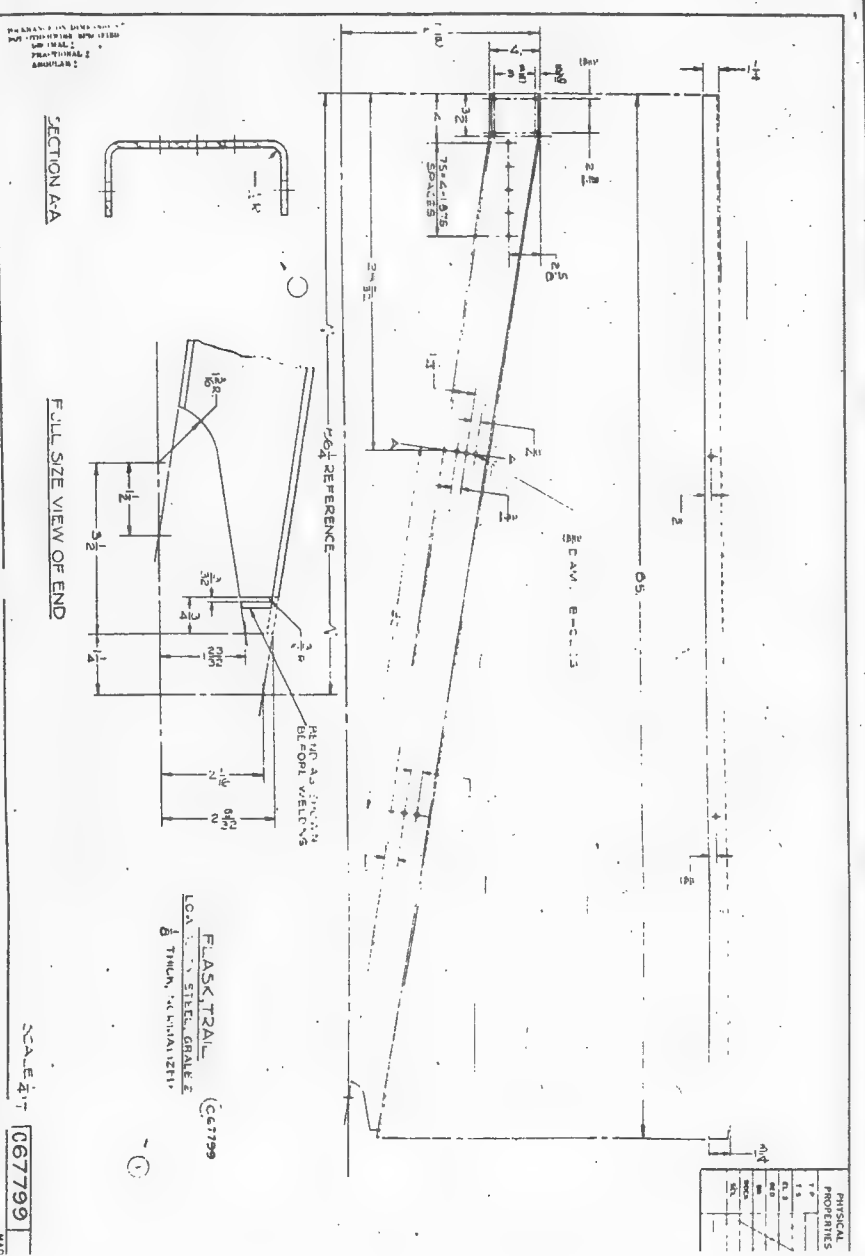
SCALE :

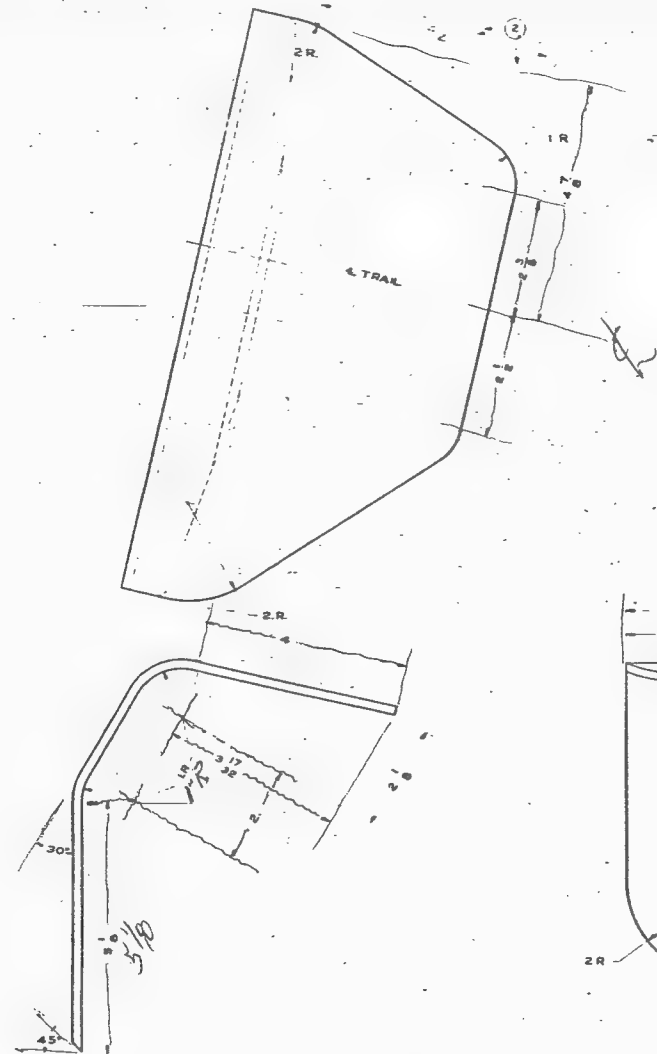
JUNE 30, 1959		CLASS	SERIES	EXTENSION	PAGE
REVISONS					
18	14-140				
27	12-3-40				
SYMBOL					
		DESCRIPTION	NUMBER	CYCLE NUMBER	
		WMBL		<i>270</i>	
				<i>213</i>	
DRG. PERTAINS TO					
<i>D33377</i>					
SUBMITTED:					
EXAMINED:					
DATE SENT IN:					
APPROVED BY: (signature) AND THE CHIEF OF BUREAU					
DATE: <i>JUN 30 1959</i>					
ORDNANCE DEPT., U.S.A.					
MATS. & ROCKS EXH. AREA					

MICROFILM - A44 - 610

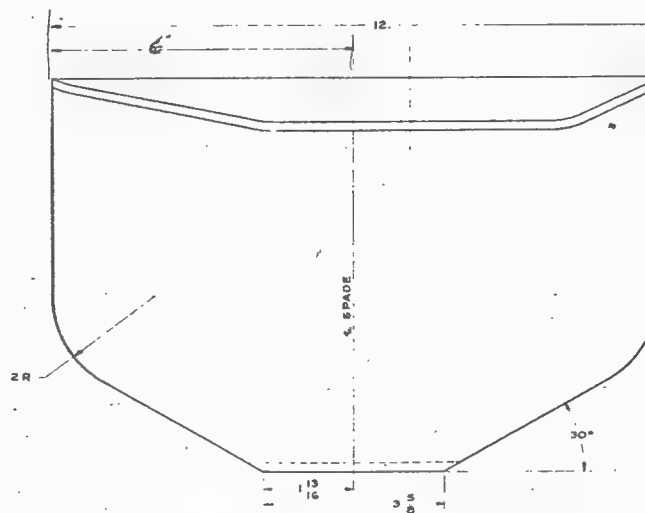


MICROFILM - A 44 - 616





$\frac{3}{16} \times 12 \times 12$
M



PIECE (D33952)
 LOW ALLOY STEEL, GRADE 2
 $\frac{3}{16}$ THICK, NORMALIZED

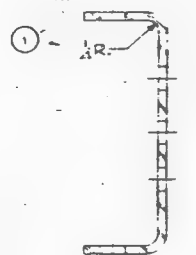
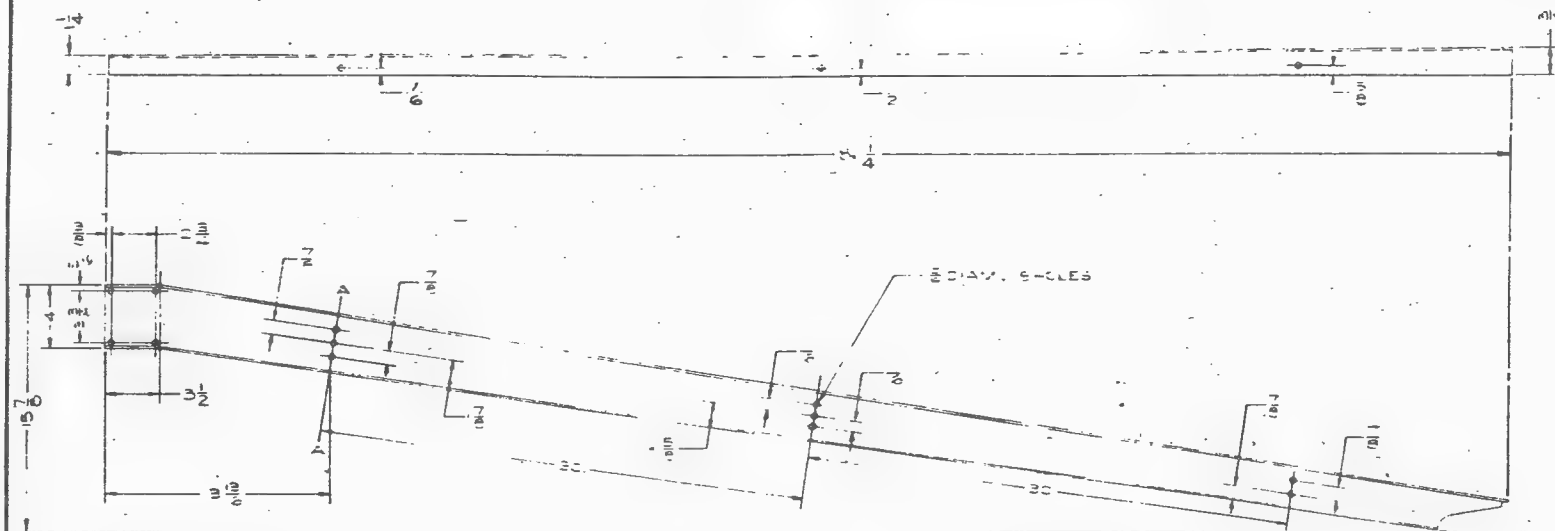
JUNE 30 1955	
REVISIONS	SYMBOL
1 4-10-40	
2 1-29-52	
ORG. PLAINS TO	QPR 8-2-5
D33982	8-2-5
D41280	8-2-5
SUBMITTED	
EXAMINED	
ORDNANCE DEPT. U. S. I	
MADE AT ROCK ISLAND ARS	

SCALE: D33952

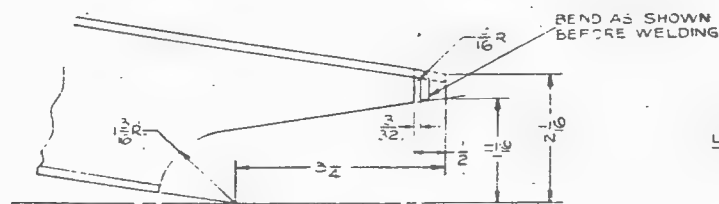
MICROFILM - A44 -

619

ORG PERTAINS TO

[illegible]

SECTION A-A



FULL SIZE VIEW OF END

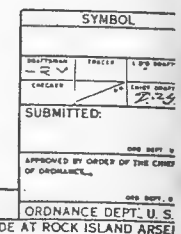
FLASK TRAIL (CG7801)
LOW ALLOY STEEL, GRADE 2
THICK, NORMALIZED

SCALE $\frac{1}{4}$

C67801

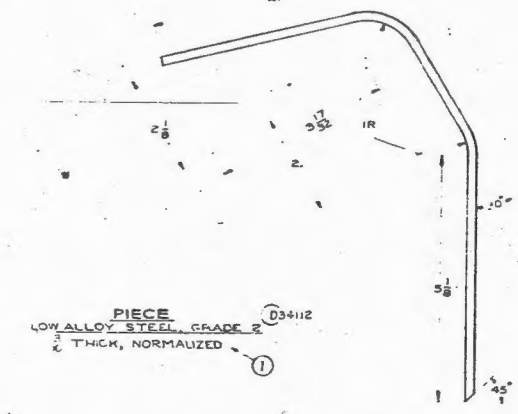
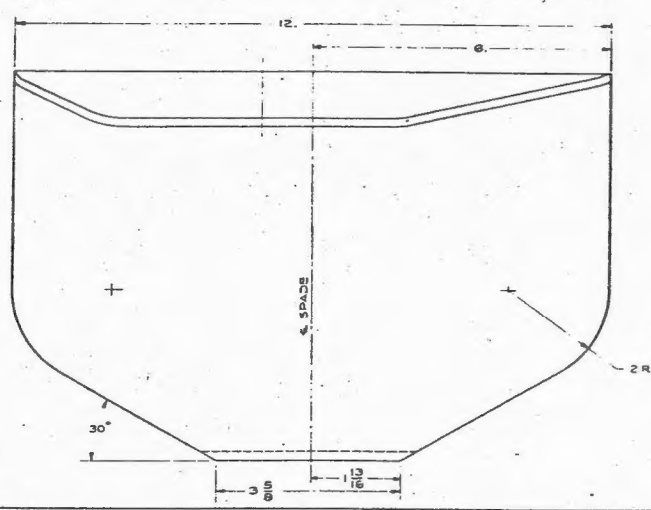
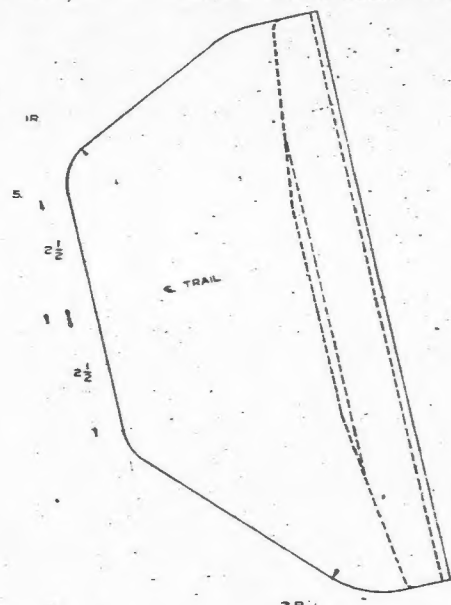
SYMBOL	
Destination <i>60</i>	100 10 100 2000
Index <i>2-2</i>	Cost Report <i>1</i>
SUBMITTED:	
JED REP 1	
APPROVED BY ORDER OF THE CHIEF OF ORDNANCE	
JED REP 2	
ORDNANCE DEPT. U. S.	
MADE AT ROCK ISLAND ARSENAL	

MICROFILM - A 44 - 626



MICROFILM - A 44 - 627

$\frac{3}{16} \times 12 \times 12$



PIECE
LOW ALLOY STEEL, GRADE 2
3/8 THICK, NORMALIZED

JUNE 30, 1939	
REVISIONS	
1 4-12-40	SYMBOL
ENG PLAINS TO D33963 D-1200	QPR SUBMITTED 2-5-9
EXAMINED	
SCALE 1/1	D34112
ORIGIN: DEPT. OF A MADE AT ROCK ISLAND ARSENAL	

GUARD [B15668A-R.H.
B15668B-L.H.]

FITTING-A168822
PIN, TAPER-BFCXIGG

PIN, TAPER-BFCXIGG
COLLAR-A169239

SCREW, CAP-BCBXICA
WASHER, LOCK, SHKPF-BEAXIL

PIN-A164758
PIN, COTTER-BFAXIC

SCREW-A 89751
STATE END, AT ASSEMBLY

SPRING, FELICAL-A 69305

PLUNGER-A 69304

SEGMENT-D34077

HANDLE-B152588
PIN-A157997
PIN, ROD END-BFFXID

WASHER, PLAIN-BEBXIK
PIN, COTTER-BFAXICD
WASHER, PLAIN-BEBXIG
PIN, COTTER-BFAXIBB

VIEW A-A

APRON-C68288*

WHEEL, SEGMENT AND APRON

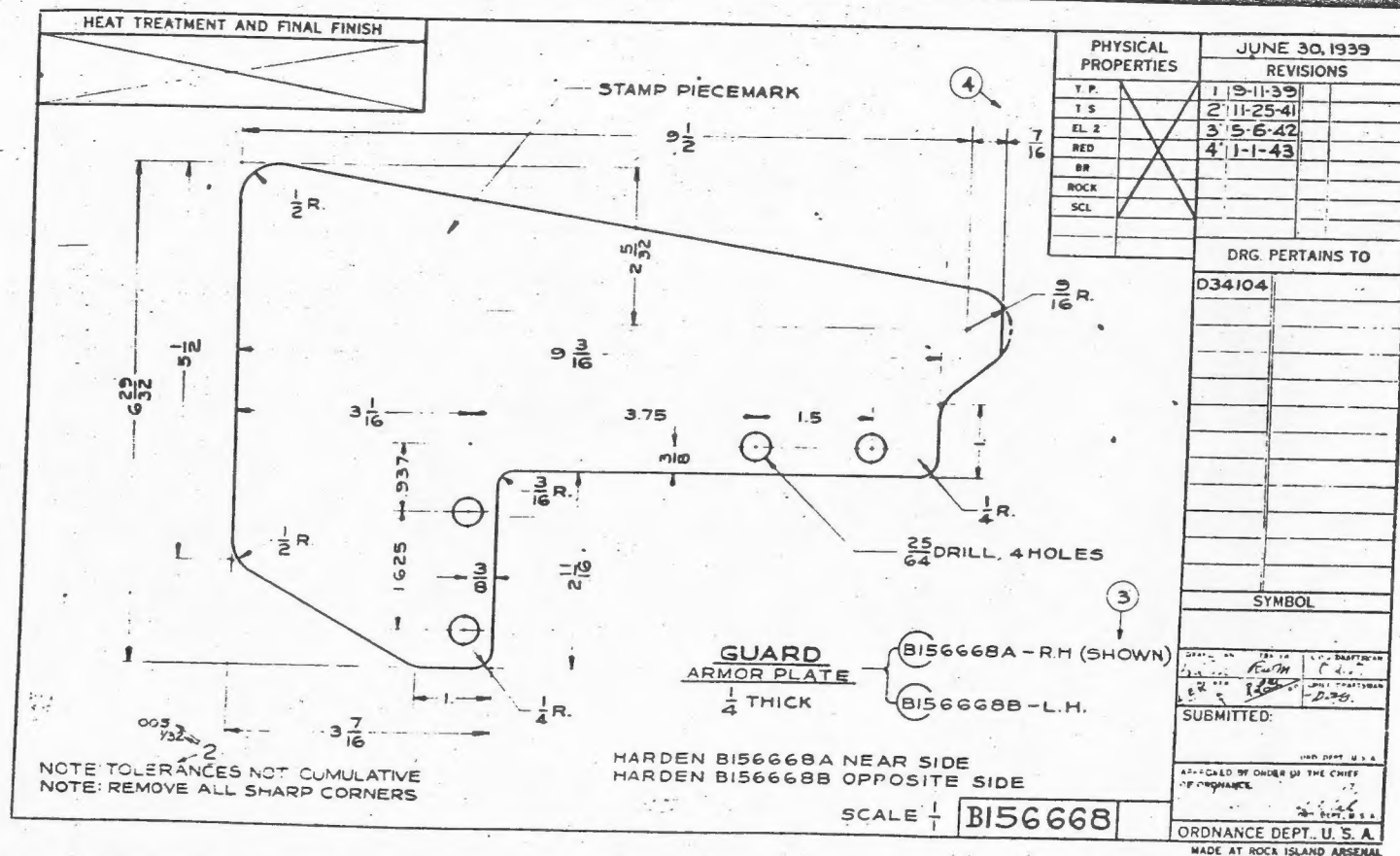
* FINDING DIAGRAM



UNLESS SHOWN OTHERWISE
NOT TO SCALE
DRAWN BY
CHECKED BY
APPROVED BY

JUNE 30, 1939		CLASS	ISSUED	REVISION
REVISIONS				
1	12-19-81	SYMBOL		
DRG. PERTAINS TO		1-105-1	1-120-1	
SUBMITTED		EXAMINED		
APPROVED BY		ORDNANCE DEPT. U.S.A.		
D34104		MADE AT ROCK ISLAND ARS		

MICROFILM - A44 - 657



MICROFILM - A44 -

665